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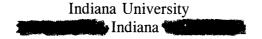
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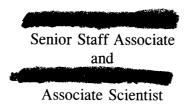
TRANSPORTATION RESEARCH CENTER



ON-SITE AIR BAG INVESTIGATION

CASE NO. - 96-25
FLEET - PRIVATE VEHICLE
LOCATION - MISSISSIPPI
ACCIDENT DATE - 1996

Submitted By:





Revised Submission:



Contract Number: DTNH22-94-D-17058

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration National Center for Statistics and Analysis Washington, D.C. 20590-0003

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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15. Supplementary Note

On-site air bag deployment investigation involving a 1995 Ford Mustang, two-door coupe, with manual safety belts and dual front air bags, and a 1991 Ford Explorer XL, four-door, sport utility

16. Abstract

This report covers an on-site investigation of an air bag deployment crash that involved a 1995 Ford Mustang and a 1991 Ford Explorer XL. This crash is of special interest because the Mustang's unrestrained, right front passenger (6 year-old male) sustained fatal cervical injuries from his deploying air bag. The Mustang was traveling west in the westbound lane of a threelane (i.e., westbound and eastbound through lanes and a bi-directional, left-hand, turn lane), undivided, city street. The Explorer which was also traveling west in the same, westbound lane of the city street. The front right bumper of the Mustang (case vehicle) impacted the back left of the Explorer (vehicle #2) causing the case vehicle's driver side and right front passenger side supplemental restraints (air bags) to deploy. The case vehicle's frontal damage indicates that, other than the direct damage to the top 5 centimeters (2.0 inches) of the front right bumper, the case vehicle primarily underrode the back of vehicle #2. The case vehicle was towed, but not due to damage, and vehicle #2 was driven from the scene. The case vehicle's driver (29 year-old female) was normally postured, with her seat track located between its middle and forward-most positions, and the tilt steering wheel was located between its middle and down-most positions. She was also restrained by her available, active, three-point, lap and shoulder belt and sustained according to her interview, minor integumentary injuries which included: an abrasion, a contusion, and a laceration to her anterior right forearm. The right front passenger (6 year-old male) was normally postured, with his seat track located between its middle and rearmost positions, and he was not wearing his available, active, three-point, lap and shoulder belt. He sustained, according to his medical records, fatal cervical and undetermined internal injuries which included: an undetermined cervical fracture (i.e., broken neck). In addition, he sustained abrasions to his right face and anterior neck and contusions to his anterior neck, left chest, and right shoulder and/or bilateral axillary areas. The cervical and integumentary injuries were caused by his deploying air bag. The existence of the internal injuries was not substantiated. In fact, no autopsy was performed to confirm any of the physician diagnoses. The right rear passenger (9 year-old male) was normally postured. The rear split bench seat is not adjustable, and he was also restrained by his available, active, three-point, lap and shoulder belt. According to the interview with the case vehicle's driver (i.e., mother), he did not sustain any injuries as a result of this crash.

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TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 96-25

FLEET - PRIVATE VEHICLE LOCATION - MISSISSIPPI

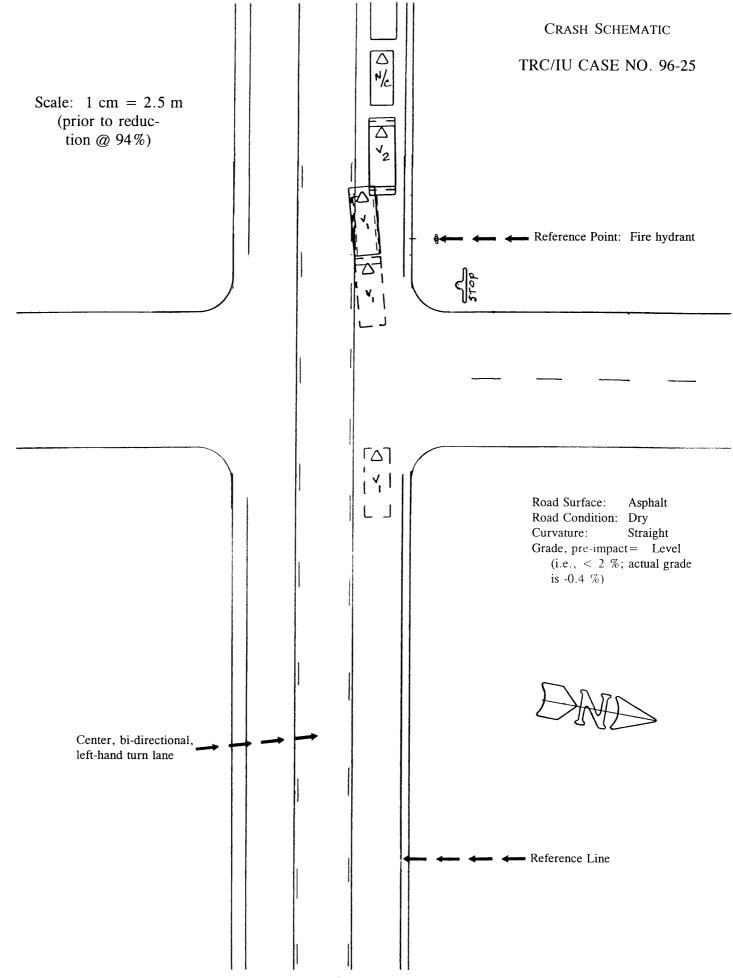
SUMMARY

This report concerns a motor vehicle crash involving an air bag equipped 1995 Ford Mustang and a 1991 Ford Explorer XL occurring in 1996 at 4:18 p.m., in an urban area on a city street. This crash is of special interest because the Mustang's unrestrained, right front passenger (6 year-old male) sustained fatal cervical injuries from his deploying air bag.

The Mustang was traveling west in the westbound lane of a three-lane (i.e., westbound and eastbound through lanes and a bi-directional, left-hand, turn lane), undivided, city street when it impacted the Explorer which was also traveling west in the same, westbound lane of the city street. The crash occurred in the westbound through lane. The Mustang came to rest near were the impact occurred heading west-southwest. The Explorer moved slightly forward (west-ward) after impact and came to rest, heading west, in the westbound lane of the roadway.

The front right bumper of the Mustang impacted the back left of the Explorer. The Mustang's frontal damage indicates that, other than the direct damage to the top 5 centimeters (2.0 inches) of the front right bumper, the Mustang primarily underrode the back of the Explorer. The Mustang was towed, but not due to damage, and the Explorer was driven from the scene. The CDCs were determined to be: 12-FREW-1 for the Mustang and 06-BLEE-1 for the Explorer. The SMASH reconstruction program, damage only algorithm, was used on the highest severity impact to the Mustang. The Total, Longitudinal, and Lateral Delta Vs are respectively: 6 km.p.h. (4 m.p.h.), -6 km.p.h. (-4 m.p.h.), and 0 km.p.h. (0 m.p.h).

The 1995 Ford Mustang was equipped with both driver and right front passenger supplemental restraint systems (air bags) which deployed as a result of the frontal impact. The driver of the vehicle (29 year-old female) was normally postured, with her seat track located between its middle and forward-most positions, and the tilt steering wheel was located between its middle and down-most positions. She was also restrained by her available, active, three-point, lap and shoulder belt and sustained according to her interview, minor integumentary injuries which included: an abrasion, a contusion, and a laceration to her anterior right forearm. The right front passenger (6 year-old male) was normally postured, with his seat track located between its middle and rearmost positions, and was not wearing his available, active, three-point, lap and shoulder belt. He sustained, according to his medical records, fatal cervical and undetermined internal injuries which included: an undetermined cervical fracture (i.e., broken neck). In addition, he sustained abrasions to his right face and anterior neck and contusions to his anterior neck, left chest, and right shoulder and/or bilateral axillary areas. The cervical and integumentary injuries were caused by his deploying air bag. The existence of the internal injuries was not substantiated. In fact, no autopsy was performed to confirm any of the physician diagnoses. The right rear passenger (9 year-old male) was normally postured. The rear split bench seat is not adjustable, and he was also restrained by his available, active, three-point, lap and shoulder belt. According to the interview with the Mustang's driver (i.e., mother), he did not sustain any injuries as a result of this crash.



TRC/IU ON-SITE AIR BAG INVESTIGATION

TRC/IU CASE NO. 96-25

FLEET - PRIVATE VEHICLE LOCATION - MISSISSIPPI

ACCIDENT DATA

	Medident Data
Location/Street:	City street
State:	Mississippi
Area/Type:	Urban/commercial
Accident Date/Time:	p.m.
Investigating Police Agency:	City police department
Accident Type:	Vehicle / Vehicle - Rear end
Occupant Injury Severity (air bag vehicle):	Cervical fracture, not further specified (AIS-2), and probable a cervical cord injury (Not

Ambient Conditions			
Light Conditions:	Daylight		

None

coded)

Weather Condition: Clear

Road Surface: Dry

Precipitation:

Temperature: 75 degrees F (24 degrees C) @ nearest

metropolitan airport

ROADWAY **Case Vehicle** Vehicle #2 Location: City street City street Number of Travel Lanes: Three lanes, one west-Three lanes, one westbound and one eastbound bound and one eastbound through lane, one bithrough lane, one bidirectional center leftdirectional center lefthand turn lane hand turn lane Lane Width: 3.5 meters (11.5 feet) 3.5 meters (11.5 feet)

ROADWAY (CONTINUED)

Case Vehicle #2

Surface Type: Bituminous Bituminous

Median: None None

Shoulders: 0.5 meters (1.6 feet), 0.5 meters (1.6 feet),

paved paved

Vertical alignment: Straight Straight

Horizontal alignment: Level (i.e., actual grade Level (i.e., actual grade

is -0.4% to the west) is -0.4% to the west)

Estimated Coefficient of

Friction: .70 .70

Traffic Density: Heavy Heavy

TRAFFIC CONTROLS

Case Vehicle #2

Signals: Vertically mounted on- Vertically mounted on-

colors traffic control with left-hand turn signal at intersection ahead colors traffic control with left-hand turn signal at intersection ahead

Signs: Guide sign: State route Guide sign: State route

junction junction

Markings: Solid white edge line; Solid white edge line;

solid and dashed yellow center lines between turn lane and westbound lane solid and dashed yellow center lines between turn lane and westbound lane

Speed Limit: 40 km.p.h. (25 m.p.h.) 40 km.p.h. (25 m.p.h.)

VEHICLES

Case Vehicle #2

Year: 1995 1991

Make: Ford Ford

Model: Explorer XL, 4x2

Body Type: Two-door coupe, four Four-door sport utility,

passengers five passengers

V.I.N. 1FALP4044SF----- 1FMDU32X7MU-----

	VEHICLES (CONTINUED)		
	Case Vehicle	Vehicle #2	
Color:	Black	White	
Mileage:	78,858 km (49,000 miles)	167,504 km (104,082 miles)	
Engine:	3.8 liters, V-6, EFI	4.0 liters, V-6, EFI	
Transmission:	Five-speed, manual	Four-speed, automatic with overdrive	
Steering:	Power-assisted, rack-and-pinion	Power-assisted, recirculating ball	
Brakes:	Power-assisted, front disc, rear drum	Power-assisted, front disc, rear drum	
Padding:	Steering wheel and hub, "A"-pillars, sunvisor, dash, and side door sur- faces	Steering wheel and hub, "A"-pillars, sunvisors, dash, and side door surfaces	
Active Restraints:	Three-point, manual, lap and shoulder belts in front and rear outboard seating positions	Three-point, manual, lap and shoulder belts in front and rear outboard seating positions; lap belt only at rear center position	
Passive Restraints:	Factory installed driver and right front passenger supplemental restraint systems (air bags)	Not equipped	
Defects:	None	None	
Fleet:	Private vehicle	Private vehicle	
Tow status:	Towed but not due to damage	Driven away	

	VEHICLE DAMAGE	
EXTERIOR	Case Vehicle	Vehicle #2
Deployment Impact		
Event number:	One	One
Object Struck:	Vehicle #2	Case Vehicle
Damage location Damaged Plane:	Front	Back

VEHICLE DAMAGE (CONTINUED)			
EXTERIOR (Continued)	Case Vehicle	Vehicle #2	
Deployment Impact (Continued)			
Vertical Location			
On Plane:	Bumper and above	Bumper	
Direct Begins:	At right bumper corner	At left bumper corner	
Length Direct:	44.0 cm (17.3 in)	40.0 cm (15.7 in)	
Field L:	58.0 cm (22.8 in)	49.0 cm (19.3 in)	
C_1 :	0.1 cm (0.0 in)	2.0 cm (0.8 in)	
C ₂ :	0.3 cm (0.1 in)	1.5 cm (0.6 in)	
C ₃ :	0.5 cm (0.2 in)	0.5 cm (0.2 in)	
C₄: C₅:	0.5 cm (0.2 in) Not used	0.1 cm (0.0 in) Not used	
C ₅ . C ₆ :	Not used	Not used	
D:	+51.0 cm (20.1 in)	-69.0 cm (-27.2 in)	
Maximum Crush:	0.5 cm (0.2 in)	2.0 cm (0.8 in)	
Location:	C_4	C_1	
CDC:	12-FRMW-1 (360)	06-BLEE-1 (+170)	
Damaged Components:	Front bumper facia, front grille, hood, and right front headlight assembly	Rear bumper and hatch, left rear quarter panel	
INTERIOR			
Damaged Components:	Driver and right front passenger air bag modules	None	
Other Evidence of	and right windshield		
Other Evidence of Occupant Contact:	Center console, right	None	
	front passenger sunvisor		
	and roof, right dash above glovebox		
Manual Restraint	Storbook		
System Failures:	None	None	
Seat Performance			
Failures:	None	None	
REPAIR			
Cost Estimate:	Unknown	Unknown	

VEHICLE VELOCITY ESTIMATES

Highest Delta "V" **Case Vehicle** Vehicle #2 Reconstruction Program: **SMASH SMASH**

VEHICLE VELOCITY ESTIMATES (CONTINUED)

Highest Delta "V"	Case Vehicle	Vehicle #2
Program Algorithm:	Damage only	Damage only
Barrier Equivalent Speed:	6 km.p.h. (4 m.p.h.)	5 km.p.h. (3 m.p.h.)
Total Delta "V":	6 km.p.h. (4 m.p.h.)	5 km.p.h. (3 m.p.h.)
Longitudinal Delta "V":	-6 km.p.h. (-4 m.p.h.)	+5 km.p.h. (+3 m.p.h.)
Lateral Delta "V":	0 km.p.h. (0 m.p.h.)	-1 km.p.h. (-1 m.p.h.)

NOTE: Due to the minimal deformation to both vehicles and the underride type impact, the actual Delta Vs are higher. This contractor's visually estimated Delta V is between 13 km.p.h. (8 m.p.h.) and 18 km.p.h. (11 m.p.h.).

COLLISION SEQUENCE

The following is based on the Police Accident Report, interviews with both vehicle drivers and the investigating police officer, scene and vehicle inspections, occupant medical records, and this contractor's evaluation of the evidence.

PRE-CRASH:

The case vehicle (Mustang) was traveling west in the westbound lane of a three-lane (i.e., westbound and eastbound through lanes and a bi-directional, left-hand turn lane), undivided, city street and was intending to continue in its direction of travel. Vehicle #2 (Explorer) was also traveling west in the same, westbound lane of the city street and was stopped waiting for the traffic control signal ahead to change. The driver of the case vehicle braked and steered to her left leaving approximately 4.0 meters (13 feet) of skidmarks. Despite her avoidance maneuvers, the case vehicle continued essentially straight ahead prior to impact. The driver of vehicle #2 made no pre-crash avoidance maneuvers. Vehicle #2 remained stopped, heading westward, prior to impact. The crash occurred in the westbound through lane.

CRASH:

The front right bumper of the case vehicle impacted the back left of vehicle #2 causing both the driver and right front passenger side supplemental restraint systems (air bags) to deploy. The case vehicle's frontal damage indicates that, other than the direct damage to the top 5 centimeters (2.0 inches) of the front right bumper, the case vehicle primarily underrode the back of vehicle #2. The vehicle came to rest near were the impact occurred heading west-southwest. Vehicle two moved slightly forward (westward) after impact and came to rest, heading west, in the westbound lane of the roadway.

POST-CRASH:

Occupants:

All three occupants remained inside the case vehicle at final rest. The driver and right rear passenger were conscious and able to exit the case vehicle without assistance. The right front passenger was unconscious and was removed from the case vehicle by emergency medical personnel. The case vehicle's driver and right

COLLISION SEQUENCE (CONTINUED)

POST-CRASH:

Occupants: (Continued)

rear passenger were restrained by their available, active, three-point, lap and shoulder belts. According to the case vehicle's driver, the right front passenger was also restrained by his available, active, three-point, lap and shoulder belts; however, based on police evidence (i.e., police took hair and skin¹ from the windshield), the vehicle inspection², and the interviews with Vehicle #2's driver³ and the coroner/funeral director (i.e., the coroner viewed the right front passenger's torso and saw no evidence of seatbelt pattern bruising), the right front passenger was not using his safety belts.

Police:

The investigating police agency was notified of the crash within one minute post-crash and arrived on-scene three minutes later. Traffic control procedures were established and emergency medical and towing services were called to assist.

Rescue:

The case vehicle's driver and the right rear passenger (i.e., older son) did not require medical treatment. The right front passenger was transported by ambulance to a medical facility where he was pronounced dead thirty-two minutes postcrash. The driver accompanied the right front passenger (i.e., younger son) in the ambulance to the medical facility. The right rear passenger was transported from the scene by his grandfather. The case vehicle's driver sustained minor integumentary injuries (i.e., an abrasion, a contusion, and a laceration to her anterior right forearm) as a result of the crash, and the right rear passenger was not injured. The right front passenger sustained fatal cervical and undetermined internal injuries. Based on this occupant's medical records, the cervical injuries included an undetermined cervical fracture (i.e., broken neck⁴). In addition, he sustained abrasions to his right face and anterior neck and contusions to his anterior neck, left chest, and right shoulder and/or bilateral axillary areas. The cervical and integumentary injuries were caused by his deploying air bag. The existence of the internal injuries was not substantiated. In fact, no autopsy was performed to confirm any of the physician diagnoses.

Removal:

Following the police investigation, the case vehicle was towed from the scene but not because of damage. Vehicle #2 was driven from the scene.

This contractor believes that there was definitely hair in the cracked windshield, but the alleged skin may in fact have been residue of the air bag generant; see SELECTED PHOTOGRAPH #44.

Given the significant blood stains on the right front passenger's seat and the right side of the center console (see SELECTED PHOTOGRAPHS #57 and #58), it is noteworthy that there was no blood present on the seatbelt (see SELECTED PHOTOGRAPH #65).

Wehicle #2's driver indicated that he saw the right front passenger strike the windshield during crash.

Based on this contractor's reading of the medical records and our previous experience with child, air bag-related, cervical injuries, this contractor strongly suspects that this patient sustained an atlanto-occipital dislocation and/or fracture with resulting trauma (laceration, contusion) to the spinal cord.

HUMAN FACTORS/OCCUPANT DATA

DRIVERS: Case Vehicle Vehicle #2 29 year-old 39 year-old Age: Sex: Female Male Height: 152 cm (60 in) 180 cm (71 in) Weight: 59 kg (130 lbs) 118 kg (260 lbs) Occupation: Student Government official (i.e., County Deputy Sheriff) Active Restraint System/Usage: Three-point lap and shoul-Three-point lap and shoulder/Used der/Used Usage Source: Vehicle inspection, inter-Vehicle inspection, interviewee, and Police Acciviewee, and Police Accident Report dent Report Passive Restraint System/Usage: Driver side air bag/air Not equipped bag deployed Usage Source: Vehicle inspection and Not applicable interviewee Eyeglasses/contacts: None None Vehicle Familiarity: One year, approximately Five years, approximately 4,828 km (3,000 miles) in 28,968 km (18,000 mi) in last 12 months last 12 months Route Familiarity: Daily **Daily** Trip Plan: Shopping to home Home to shopping Manner of Leaving Scene: Accompanied right front Drove away occupant in ambulance Type of Medical Treatment: None None CASE VEHICLE **PASSENGERS: Right Front Right Rear** Age: 6 year-old 9 year-old Sex: Male Male

Height: 117 cm (46 in) 137 cm (54 in)

Weight: 23 kg (50 lbs) 38 kg (84 lbs)

Active Restraint

System/Usage: Three-point lap and shoul- Three-point lap and shoul-

HUMAN FACTORS/OCCUPANT DATA (CONTINUED)

CASE VEHICLE

PASSENGERS: (CONTINUED) Right Front Right Rear

Usage Source: Vehicle inspection Interviewee, vehicle

inspection, and Police Accident Report

Passive Restraint

System/Usage: Factory installed air

bag/Air bag deployed

Not equipped

Usage Source: Vehicle inspection and

interviewee

Not applicable

Eyeglasses/contacts: None Not applicable

Manner of Leaving Scene: Ambulance Driven from scene by re-

lative (i.e., grandfather)

Type of Medical Treatment: Died in Emergency room None

VEHICLE #2 PASSENGERS:

RS: Right Front Left Rear

Age: 40 year-old 13 year-old

Sex: Female Male

Height: 170 cm (67 in) 175 cm (69 in)

Weight: 76 kg (167 lbs) 77 kg (170 lbs)

Active Restraint

System/Usage: Three-point lap and shoul-

der/Used

Three-point lap and shoul-

der/Used

Usage Source: Vehicle inspection and

interviewee

Vehicle inspection, interviewee, and Police Acci-

dent Report

Passive Restraint

System/Usage: Not equipped Not equipped

Usage Source: Not applicable Not applicable

Eyeglasses/contacts: Not applicable Not applicable

Manner of Leaving Scene: Driven Driven

Type of Medical Treatment: None None

VEHICLE #2

PASSENGERS: (Continued) Center Rear Right Rear

Age: 5 month-old 22 year-old

Sex: Male Female

HUMAN FACTORS/OCCUPANT DATA (CONTINUED)

VEHICLE #2 PASSENGERS: (Continued)	Center Rear	Right Rear
Height:	64 cm (25 in)	170 cm (67 in)
Weight:	10 kg (23 lbs)	56 kg (123 lbs)
Active Restraint System/Usage:	Two-point lap belt/Used with EVENFLO JOYRIDE child safety seat	Three-point lap and shoulder/Used
Usage Source:	Vehicle inspection, interviewee, and Police Accident Report	Vehicle inspection, interviewee, and Police Accident Report
Passive Restraint System/Usage:	Not equipped	Not equipped
Usage Source:	Not applicable	Not applicable
Eyeglasses/contacts:	Not applicable	Not applicable
Manner of Leaving Scene:	Driven	Driven
Type of Medical Treatment:	None	None

CASE VEHICLE DRIVER INJURIES ⁵				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Abrasion anterior right forearm	790202.1,1	7	Air bag, driver's side	{Probable}
Contusion posterior right forearm	790402.1,1	85	Center floor- mounted console	{Certain}
Laceration posterior right forearm	790600.1,1	7	Center floor- mounted console	{Certain}

⁵ This injury was observed by this contractor's investigator.

Case Vehicle Right Front Passenger Injuries ^{6,7,8,9}				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Cervical fracture ⁶ {broken neck}	650216.2,6	3	Air bag, passen- ger's side	{Certain}
Abrasions right face	290202.1,1	8^9	Air bag, passen- ger's side	{Certain}
Abrasions anterior neck	390202.1,4	3	Air bag, passen- ger's side	{Certain}
Contusions, large, neck and entire lower chin area	390402.1,4	3	Air bag, passen- ger's side	{Certain}
Contusion to left rib area Contusion right clavicular ⁷ area	490402.1,2 790402.1,1	3	Air bag, passen- ger's side	{Certain}
Contusions bilateral axillary ⁷	790402.1,3	3	Air bag, passen- ger's side	{Certain}
areas Internal injuries ⁸ , not further	415099.7,0	3	Air bag, passen- ger's side	{Certain}
specified specified	515099.7,0	3	Unknown mechanism	{Unknown}

Case Vehicle Right Rear Passenger Injuries				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Not injured	0	7	Not applicable	Not applicable

This medical description is the best fit for the non-anatomically clear descriptions that exist on the actual medical records. In addition to the cervical fracture, the consultant physician described palpating a step off sign at the base of the neck. Later he indicated that to his "eyes it appeared that there was a separation of the base of the skull with C_1 " However, the radiology report indicated that "there is questionable dislocation of C_1 and the base of the skull." Because of this uncertainty, our injury coding protocol does not allow us to encode the suspected atlanto-occipital dislocation.

Based on this contractor's experience with previous air bag-related cervical injuries, the patient's cervical spinal cord was almost certainly, fatally traumatized.

⁶ The patient was in complete cardiopulmonary arrest on arrival of the emergency medical technicians.

It is unclear if the contusion reported to the right clavicular area (emergency medical technician and consultant physician) is one and the same as those reported to the axillary areas (nurse notes). The emergency medical technicians also reported contusions (bruising) to {i.e., both} shoulders.

In this contractor's opinion, the existence of internal injuries is highly questionable. This diagnosis appears to rest on the observation that the patient's abdomen was distended (consultant's examination and nurses notes) and that the distention increased during the treatment (nurses notes). However, according to the consultant's exam, no blood was found in the peritoneal cavity (if it was even tapped) and, at one point, he thought the distention was caused by air.

The abrasions to the patient's right face are visible in the photographs taken by the coroner; see SELECTED PHOTO-GRAPHS #89 and #90.

Vehicle #2 Driver Injuries				
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Not injured	0	7	Not applicable	Not applicable
	112 D		1	
VEHICLE	#2 RIGHT FRO	ONT PASSENGE	R INJURIES	
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Not injured	0	7	Not applicable	Not applicable
VEHICL	e #2 Left Rea	AR PASSENGER	Injuries	
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	Certainty
Not injured	0	7	Not applicable	Not applicable
VEHICLE	#2 CENTER R	EAR PASSENGE	r Injuries	
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	<u>Certainty</u>
Not injured	0	7	Not applicable	Not applicable
VEHICLE	E #2 RIGHT RE	AR PASSENGER	Injuries	
Description of Injury	<u>A.I.S.</u>	Source of Data	Injury <u>Mechanism</u>	Certainty
Not injured	0	7	Not applicable	Not applicable

CASE VEHICLE DRIVER KINEMATICS

According to the case vehicle's driver, immediately prior to the crash she was normally postured (i.e., her seat was slightly reclined with her back against the seatback, her left foot on the floor, her right foot on the brake, and both hands on the steering wheel). According to the case vehicle's driver, her seat track was located between its middle and forward-most positions, and the tilt steering wheel was located between its middle and down-most positions. According to the vehicle inspection, the driver's seatback was located in the upright position, the seat track was located between its middle and rearmost positions and had been moved prior to our vehicle inspection, and the tilt steering wheel was located between its middle and down-most positions. According to the vehicle inspection and the driver's interview, she was also restrained by her

CASE VEHICLE DRIVER KINEMATICS (CONTINUED)

available, active, three-point, lap and shoulder belt. The case vehicle was not equipped with an adjustable "D"-ring mechanism.

According to the scene evidence and the case vehicle's driver, she braked [with lock-up, depositing 4.0 meters (13 feet) of skidmarks] and steered to the left attempting to avoid the crash. As a result of these attempted avoidance maneuvers and the use of her available safety belts, she most likely moved slightly forward, upward, and to her right just prior to impact.

Based on the vehicle inspection and occupant kinematic principles, the case vehicle's primary impact with vehicle #2, not only deployed the driver's side air bag, but thrust the driver forward and upward loading the driver's safety belts (see SELECTED PHOTOGRAPHS #37 and #38) and contacting her deploying driver side air bag. An inspection of the driver's air bag revealed a black smear to the upper center portion which had the appearance of eye make-up; see SE-LECTED PHOTOGRAPH #30. There was no evidence of contact on the driver side air bag module's cover flap. During the deployment, the driver's right arm was thrown back and to the right were it contacted the soft drink can that was in the cup/can holder located in the floormounted center console. The deploying air bag abraded her right forearm {most likely on the anterior surface} and the contact with the open can and center console caused a contusion and laceration to her posterior right forearm which was shaped like a half moon. The laceration also deposited blood drops around the center console on the driver's side; see SELECTED PHOTO-GRAPHS #35 and #36. According to the case vehicle's driver, the laceration to her right forearm occurred when she went to reach for the right front passenger's (i.e., younger sons) seatbelt in order to unbuckle it. Based on this driver's lack of serious injuries and considering her short stature [152 centimeters (60 inches)], it appears her safety belt and driver side air bag properly prevented her from an serious injuries.

Based on occupant kinematic principles, at final rest, after loading her safety belts and contacting her deploying air bag, the driver moved backwards toward her original seating position. According to the case vehicle's driver, at final rest she could not recall her exact seating position since her thoughts dealt with getting her kids out of the car because she saw what she believed to be a lot of smoke in the vehicle's interior. This contractor believes that at final rest the driver was close to her original pre-crash seating position.

CASE VEHICLE RIGHT FRONT PASSENGER KINEMATICS

According to the case vehicle's driver (i.e., mother), immediately prior to the crash the right front passenger was normally postured (i.e., his seat was slightly reclined with his back against the seatback and his feet hanging down). The driver was unable to recall how her son's arms and hands were positioned. According to the case vehicle's driver, the right front passenger's seat track was located between its middle and rearmost positions. According to the vehicle inspection, the right front passenger's seat track was located two notches from (i.e., almost at) the rearmost position which the driver may have assumed was between its middle and rearmost positions. Based on the vehicle inspection and evidence (i.e., hair) collected from the starred windshield by the police (see Selected Photograph #44), he was not wearing his available, active, three-point, lap and shoulder belt. It should be noted that the police also collected what they believed to be skin from the windshield along with the hair, but this contractor believes the

CASE VEHICLE RIGHT FRONT PASSENGER KINEMATICS (CONTINUED)

alleged skin was air bag exhaust particles (see SELECTED PHOTOGRAPH #43) which was sprayed on the windshield through the vent hole. The right front passenger's seatbelt showed only a storage mark on the webbing and no evidence of loading or blood spots; see SELECTED PHOTOGRAPHS #61 through #67. According to the coroner\funeral home director, the right front passenger had no seatbelt patterned markings on his torso. The vehicle was not equipped with an adjustable "D"-ring mechanism.

As a result of the case vehicle's attempted avoidance maneuvers (i.e., braking and steering to the left) and the nonuse of his available safety belts, the right front passenger most likely moved slightly forward and to his right just prior to impact.

Based on the vehicle inspection and occupant kinematic principles, the case vehicle's primary impact with vehicle #2, not only deployed the top-mounted, right front passenger side air bag, but thrust the right front passenger forward and slightly upward where he contacted the deploying air bag which pushed him further upward into the windshield and sunvisor and backwards against the roof (see Selected Photographs #46 through #49) to just above the right front passenger's seatback. An inspection of the right front passenger's air bag revealed evidence (i.e., skin and oil smears) on the top part of the air bag near the cover flap extending to the front portion of the air bag near its top (see Selected Photographs #50 through #54). In addition, there did not appear to be any evidence of contact on the right front passenger side air bag module's top cover flap. According to the driver of vehicle #2, immediately prior to the crash, during the case vehicle's avoidance braking, he saw the right front passenger strike the windshield prior to the air bag deploying. The lack of evidence on the top cover flap would discount this scenario. Based on previous Special Crash Investigation cases, the contact to the windshield by the right front passenger was caused by the air bag inflating while the passenger was moving over the top of it, lifting the passenger into the windshield.

Based on the case vehicle's driver, at final rest the right front passenger was sitting in his seat leaning to his left with his head turned to the left. According to vehicle #2's driver, when he went to the case vehicle this passenger was laying on his left side with his head over the center console, and the air bag was draped over his face. Vehicle #2's driver stated that he was not looking for it, but he did not notice the child's seat belt being "on", either. Based on the previous two statements, this contractor believes that at final rest the child was laying to his left with his head on the center console, and following the crash, he was moved to a near upright position, explaining the large amount of blood on the right front passenger's seatback near the base of the seat; see SELECTED PHOTOGRAPH #57.

CASE VEHICLE RIGHT REAR PASSENGER KINEMATICS

According to the case vehicle's driver (i.e., mother), immediately prior to the crash the right rear passenger was normally postured (i.e., seated upright with his back against the seatback and his feet hanging down). The driver did not know how his arms and hands were positioned. The rear split bench seat is not adjustable (i.e., no seat track) and has folding backs which cannot be reclined. According to the Police Accident Report and the case vehicle's driver, the right rear occupant was restrained by his available, active, three-point, lap and shoulder belt. This contractor could find no evidence to prove or disprove the occupants belt usage; although, no

CASE VEHICLE RIGHT FRONT PASSENGER KINEMATICS (CONTINUED)

contacts were found to the rear of the right front passenger's seatback (see SELECTED PHOTO-GRAPH #69), and he did not sustain any injuries or received any treatment.

As a result of the case vehicle's attempted avoidance maneuvers (i.e., braking and steering to the left) and the use of his available safety belts, the right front passenger most likely leaned slightly forward and to his right just prior to impact.

Based on the vehicle inspection and occupant kinematic principles, the case vehicle's primary impact with vehicle #2 caused the right rear passenger to move forward and slightly rightward loading his safety belts. Because of the minor impact along was the right rear passenger's restraint usage, he was held back from contacting the right front passenger's seatback.

At final rest, the right rear occupant remained in his seat most likely in his original seating position.

CASE VEHICLE AIR BAG SYSTEM			
	DRIVER AIR BAG	PASSENGER AIR BAG	
Air Bag Diameter (seam-to-seam, deflated):	Width: 62 cm (24.4 in) Height: 60 cm (23.6 in)	Width: 63 cm (24.8 in) Height: 58 cm (22.8 in)	
Number of Vent Holes:	Two	One	
Vent Hole Diameter:	2 cm (0.8 in)	5 cm (2.0 in)	
Vent Hole Clock Positions:	Approximately eleven- thirty and twelve-thirty o'clock	Approximately 10 o'clock	
Number of Air Bag Tethers:	Two: 8 cm (3.0 in) wide	None	
Number of Air Bag Module Cover Flaps:	Two	Two	
Upper Cover Flap Dimensions: Lower Cover Flap	Width: 15 cm (5.9 in) Height: 8 cm (3.1 in)	Width: 44 cm (17.3 in) Height: 8 cm (3.1 in)	
Dimensions:	Width: 14 cm (5.5 in) Height: 5 cm (2.0 in)	Width: 49 cm (19.3 in) Height: 8 cm (3.1 in)	
Distance between Dash and leading (i.e., closest) edge of Module's Cover Flap:	Not applicable	8 cm (3.1 in)	

CASE VEHICLE AIR BAG SYSTEM¹¹ (CONTINUED)

DRIVER AIR BAG

PASSENGER AIR BAG

Type of Mount: Steering column hub Top mounted

Generant Residue: Excess¹¹ found on driver Excess¹¹ found on wind-

side sunvisor shield

¹¹ See SELECTED PHOTOGRAPHS #33, #34, and #43.

Appendix A:

SMASH PROGRAM RESULTS

(Damage Only Algorithm

-- including

Barrier Equivalent Speeds)



U.S. Department of Transportation

SMASH PROGRAM SUMMARY

National Highway Traffic Safety Administration	(All Mo	easurements in Metric)	NATIONAL ACCIDENT SAMPLING SYSTI CRASHWORTHINESS DATA SYSTI
Identifying Title			
10	7625	0/	
Primary Sampling Unit	Case NoStratum	Accident Event Sequence No.	Date (Month, day, year) of Run
·	GENERA	L INFORMATION	
VEH	ICLE I		VEHICLE 2
NASS Vehicle Number	61	NASS Vehicle N	umber <u>0</u> 2
Year	1995	Year	1991
Make	FORD	Make	FOIZD
Model	<u>mustans</u>	Model	EXDIORER XL
Body Style	02	Rody Style	44
CDC	12FREW	<u> </u> CDC	OGBLEET
PDOF	± 00 0	° PDOF	@ 170·
Heading Angle	± 2 5 5	 Heading Angle 	± 260.
	VEHICLE	SPECIFICATIONS	
VEHI	CLE I		VEHICLE 2
Wheelbase	257 cm	m Wheelbase	284 cm
Overall Length	4 6 1 cm	n Overall Length	468 cm
Overall Width	<u>/ 8 2 cn</u>	n Overall Width	<u>/ 78</u> cm
Weight 1396+ / 20 + //	= 1 527 kg	Weight g <u>1735</u> + 33'	7 + 5 = 2.07.7 kg
Curb Occupant(s) Carg	0	Curb Occupar	at(s) Cargo
Engine Displacement	3.81	L Engine Displacem	ent 4.0 L
Drive System	RWI	Drive System	RWD
Size	2	Size	4
Stiffness	2	Stiffness	7
		INFORMATION	
VEHIC	CLE I	I	VEHICLE 2
Damage Known?	ϵ^{-2}	Damage Known?	\rightarrow
Damage Length	<u>5</u> & cm	3.	$\frac{047}{100}$ cm
Damage Offset	⊕ <u> </u>	n Damage Offset	<u> </u>
Crush Depth:	C1 O cm		C1 cm
	C2		C2
	C3	1	C3 cm
	C4	1	C4 <u></u> <u></u> cm
	C5 cm		C5
	C6 cm	1	C6 Ocm

National Accident Sampling System-Crashworthiness Data System: SMASH Program Summary

SCENE INFORMATION				
Fest and lineaux Positions - (L-1) Vo. 1 (1) Vestre				
VEHICLE 1	VEHICLE 2			
Rest X m	Rest X m			
Position Y m	Position Y m			
Heading Angle °	Heading Angle °			
Impact X	Impact X m			
Position Y	Position Y m			
Heading Angle °	Heading Angle °			
Slip Angle (-180 to +180) °	Slip Angle (-180 to +180) °			
VEHICL	E MOTION			
Sisting (Congo) i i) (c. 1, i) (cs. 1)	Section Concert 1 120 1 1725			
VEHICLE 1	VEHICLE 2			
Vence Polation Rotation Stop Before Rest [] No [] Yes	Vehicle Rotation No No Yes Rotation Stop Before Rest No Yes			
End of Rotation X m	End of Rotation X			
Position Y m	Position Y m			
Heading Angle °	Heading Angle Cunved Pathles Lites			
Point on Path X . m Y . m Regarion Direction 1 None (CW CGW) Rotation > 360° [] No [] Yes	Point on Path X . m Y . m Rotation Direction (VINOR) (S. IGW II II CGW) Rotation > 360° [] No [] Yes			
FRICTION II	NFORMATION			
Coefficient of Friction Rolling Resistance Option	· <u>1</u>			
Vehicle 1 Rolling Resistance	Vehicle 2 Rolling Resistance			
LF RF LR RR	LF RF LR RR			
IF THIS COMMON IMPACT WAS WITH A CDS VEHICLE	NOT IN TRANSPORT, FILL IN THE INFORMATION BELOW.			
Model Year:	The Weight, CDC, Scene Data and Damage Information for this vehicle should be recorded above.			
Make:	Germoletti midATAAGHaha noncontato			
Model:	ilmega skeleh melelmaistas o lie lom.			



Summary of Results Using Damage

Special Crash Investigation, TRC/IU 96-25, Task 0067

Speed Change (Damage)

```
Vehicle #1
  Total
                         6 km/h (
                                  4 mph)
  Longitudinal
                        -6 \text{ km/h} ( -4 \text{ mph})
  Latitudinal
                         0 km/h ( 0 mph)
                                 0°
  PDOF Angle
  Energy Dissipated
                                2884 Joules (
                                                2127 Ft-Lb)
  Barrier Equivalent Speed =
                               6.4 km/h
                                               4.0 mph)
 Calculated using crush coefficients entered by the user.
Vehicle #2
 Total
                         5 km/h (
                                    3 mph)
 Longitudinal
                        5 km/h (
                                    3 mph)
                        -1 km/h ( -1 mph)
 Latitudinal
                               170°
 PDOF Angle
 Energy Dissipated
                               2791 Joules (
                                                2058 Ft-Lb)
 Barrier Equivalent Speed =
                               4.6 km/h (
                                               2.8 mph)
 Calculated using crush coefficients entered by the user.
```

General Information

	Vehicle #1	Vehicle #2
Year	1995	1991
Make	Ford	Ford
Model	Mustang	Explorer
CDC	12FREW1	06BLEE1
Side Damaged	F	B
PDOF Angle	0 °	170 °
Heading Angle	255 °	260 °

Calculation method: Vehicle's Crush Coeff. Vehicle's Crush Coeff.

 $\begin{array}{lll} \mbox{d0 crush coeff.} & 97.06 \mbox{ sqrt(N)} & 98.69 \mbox{ sqrt(N)} \\ \mbox{d1 crush coeff.} & 7.22 \mbox{ sqrt(N)/cm} & 7.79 \mbox{ sqrt(N)/cm} \end{array}$



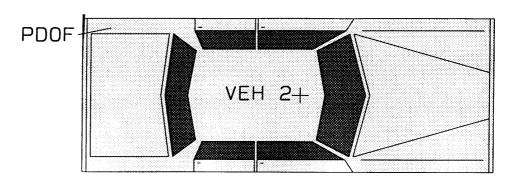
Damage Information

	Vehicle #1	Vehicle #2	
Vehicle Damage Known	Yes	Yes	
Crush Length	58.0 cm (23 in)	49.0 cm (19 in)	
C1	0.1 cm (0 in)	2.0 cm (1 in)	
C2	0.3 cm (0 in)	1.5 cm (1 in)	
C3	0.5 cm (0 in)_	0.5 cm (0 in)	
C4	0.5 cm (0 in)	0.1 cm (0 in)	
C5	0.0 cm (0 in)	0.0 cm (0 in)	
C6	0.0 cm (0 in)	0.0 cm (0 in)	
D	51.0 cm (20 in)	-68.9 cm (-27 in)	
D'	56.9 cm (22 in)	-77.5 cm (-31 in)	

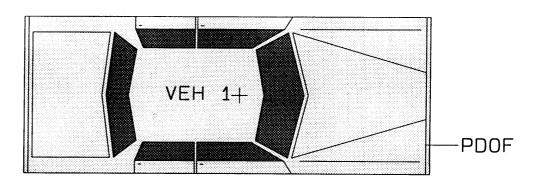
Vehicle Dimensions

	Vehicle #1	Vehicle #2	
Length Width Wheelbase Weight CG to Front of Veh Engine Displacement	460.9 cm (181 in) 182.3 cm (72 in) 257.2 cm (101 in) 1527 kgs (3366 lbs) 211.6 cm (83 in) 3.8 liters	468.0 cm (184 i 178.0 cm (70 i 284.0 cm (112 i 2077 kgs (4579 251.0 cm (99 i 4.0 liters	n) n) l lbs)
Moment of Inertia Vehicle Mass	293183 kgs (25950 lbs) 1527 kgs (8.8 lb-s^2/in)	410986 kgs (36377 2077 kgs (11.9 lb-s^2	

1991 Ford Explorer



1995 Ford Mustang



Special Crash Investigation, TRC/IU 96-25, Task 0067 1997

Appendix B:

SELECTED PHOTOGRAPHS

A total of ninety color copies of photographs are presented and referenced as Photograph #01 through Photograph #90. Photographs numbered #04, #06 through #08, #12, and #59 were taken and made available by the applicable city, Mississippi, police department. Photographs numbered #89 and #90 were taken and made available by the applicable county coroner's office. The remainder of these photographs were taken by the Transportation Research Center.



01: Case vehicle's westward travel path approximately 40 meters (131 feet) from impact with Vehicle #2



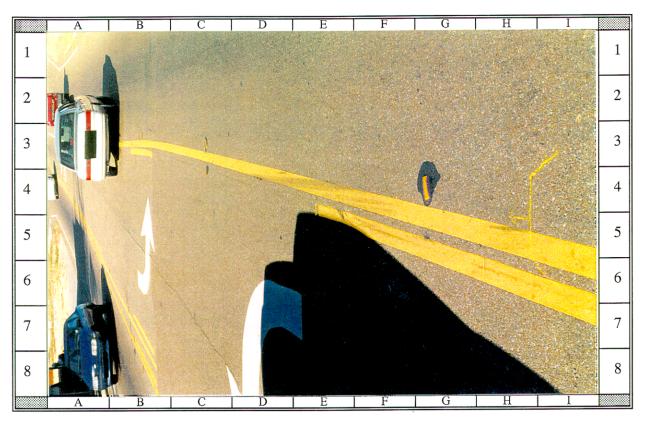
02: Case vehicle's westward travel path approximately 20 meters (66 feet) from impact with vehicle #2



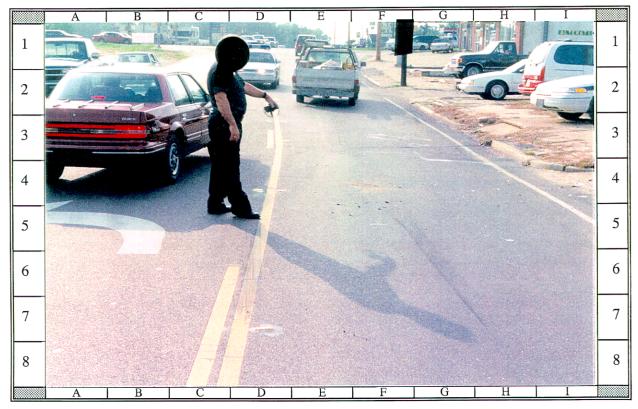
03: Case Vehicle's westward travel path approximately 10 meters (33 feet) from impact with vehicle #2



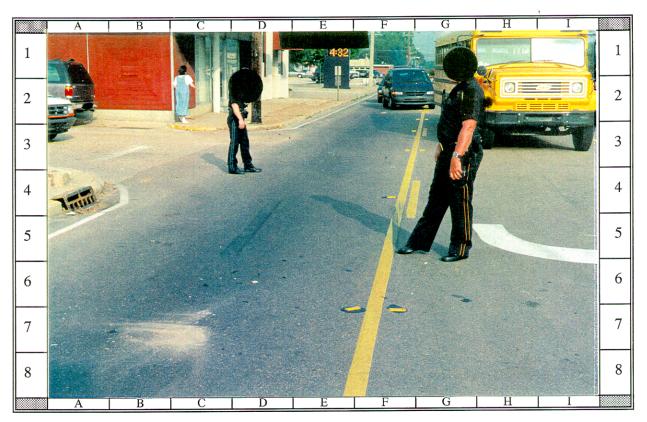
04: On-scene view of Case Vehicle's westward travel path approximately 3 meters (10 feet) from impact; NOTE: left front skidmark starts near road reflector



05: Close-up of Case Vehicle's left front skidmark crossing solid yellow lane centerline



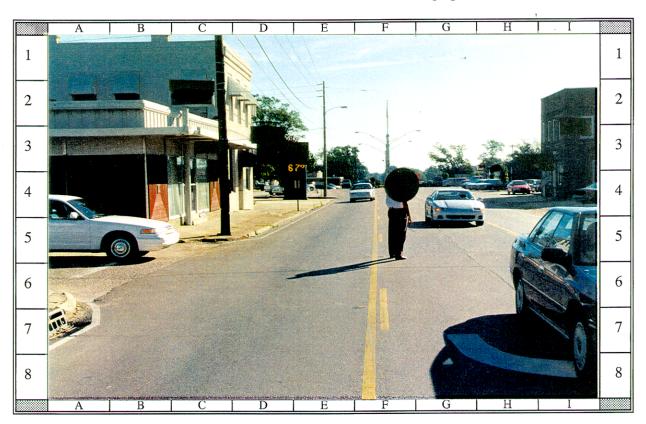
06: On-scene westward view of Case Vehicle's front skidmarks; NOTE: officer marks approximate point of maximum engagement



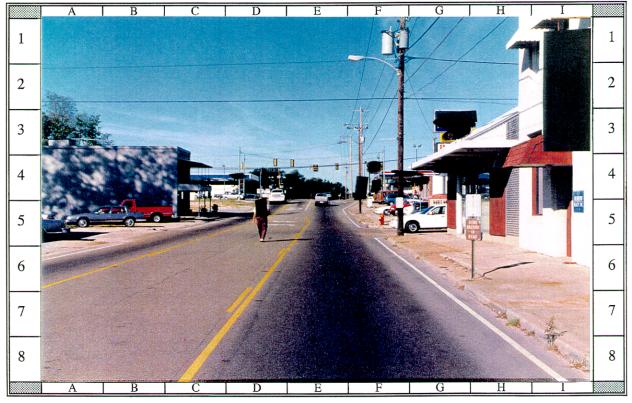
07: On-scene eastward view of skidmarks deposited by Case Vehicle's front tires prior to impact; NOTE: office marks approximate point of maximum engagement



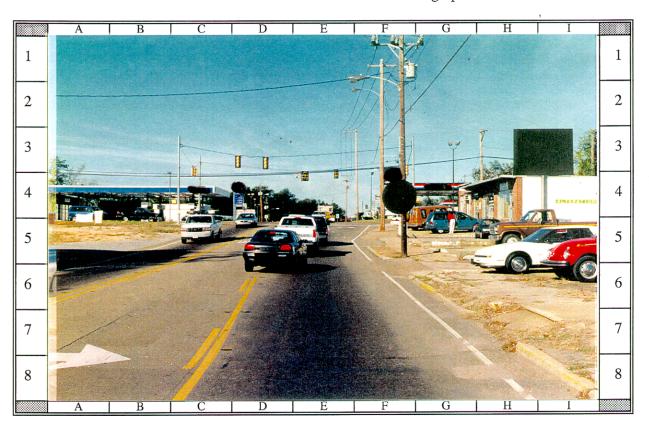
08: On-scene close-up view looking east at right front skidmark deposited by Case Vehicle prior to impact with Vehicle #2



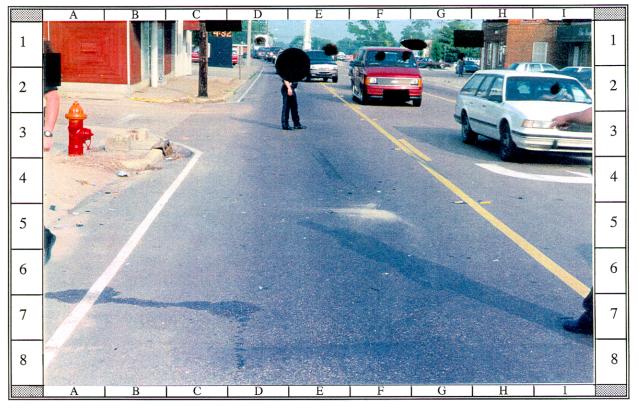
09: Eastward view of Case Vehicle's westward travel path west of impact; NOTE: Case Vehicle's left front tire mark (cells F6--F7)



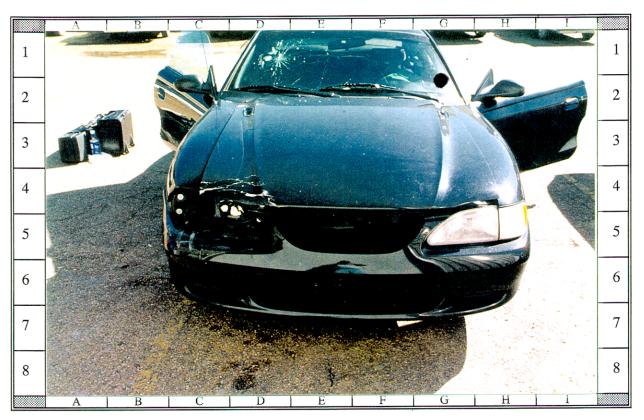
10: Vehicle #2's westward travel path approximately 45 meters (148 feet) from impact with Case Vehicle



11: Vehicle #2's westward travel path approximately 5 meters (16 feet) from impact; NOTE: Vehicle #2 stopping prior to being struck from behind by Case Vehicle



12: On-scene eastward view of Vehicle #2's westward travel path from west of impact; NOTE: Vehicle #2 sustained damage to its back left



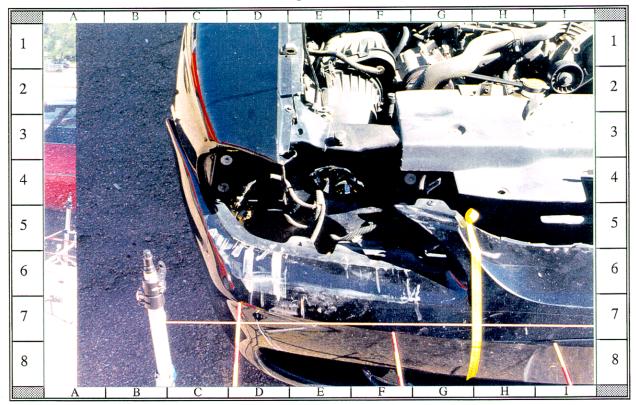
13: Case Vehicle's damaged front without contour gauge present; NOTE: direct damage primarily above bumper to right headlight area



14: Case Vehicle's damaged front with contour gauge present; NOTE: damage left of vertical yellow tape and starred right front windshield (passenger side)



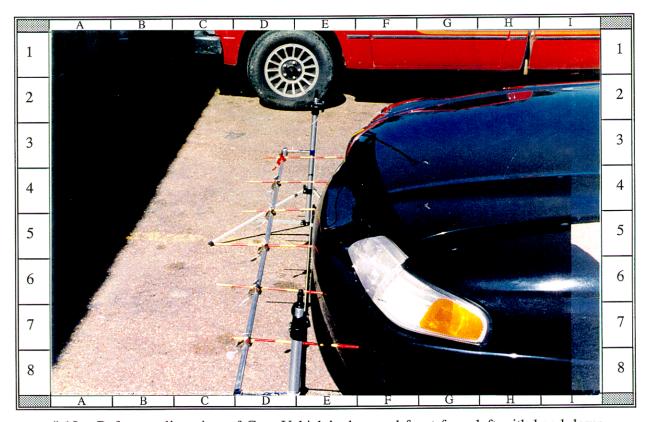
15: Close-up of Case Vehicle's direct frontal damage at bumper level; NOTE: left-ward shift to hood and starred right front windshield



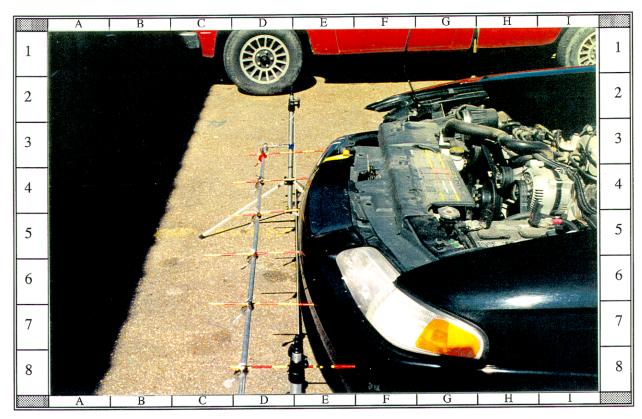
16: Overhead close-up of direct damage to Case Vehicle's front right with hood raised



17: Case Vehicle's damaged front viewed from approximately 20 degrees left of front



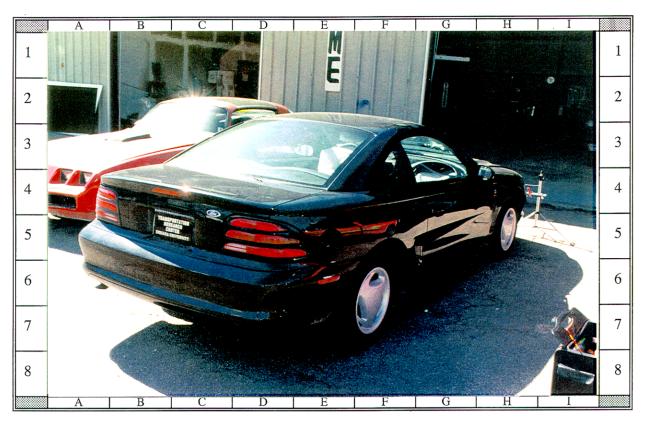
18: Reference line view of Case Vehicle's damaged front from left with hood down



19: Reference line view of Case Vehicle's damaged front from left with hood raised



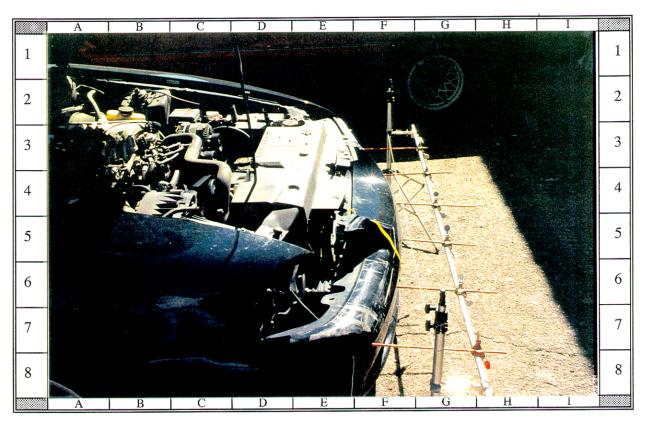
20: Case Vehicle's undamaged left side and back viewed from approximately 45 degrees left of back



21: Case Vehicle's undamaged right side and back viewed from approximately 45 degrees right of back



22: Reference line view of Case Vehicle's damaged front from right with hood down



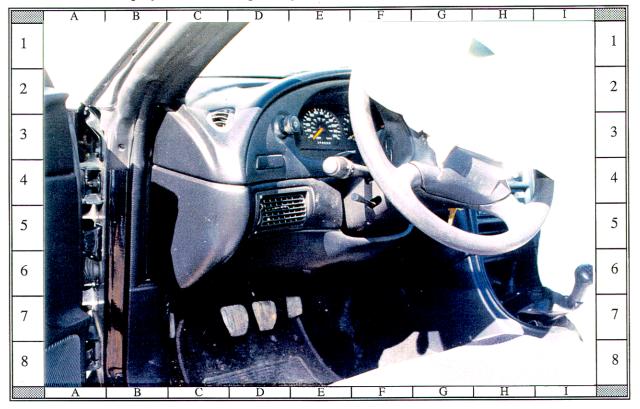
23: Reference line view of Case Vehicle's damaged front from right with hood raised



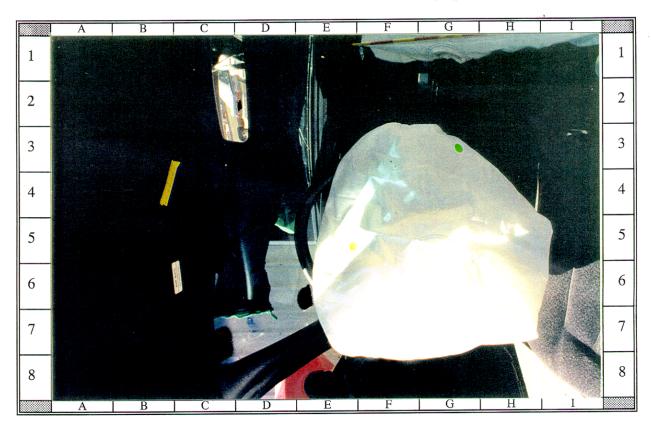
24: Case Vehicle's damaged front viewed from approximately 45 degrees right of front; NOTE: induced damage to right front fender near right front door



25: Case Vehicle's front seating area showing interior surface of driver's door panel and deployed driver and passenger side air bags



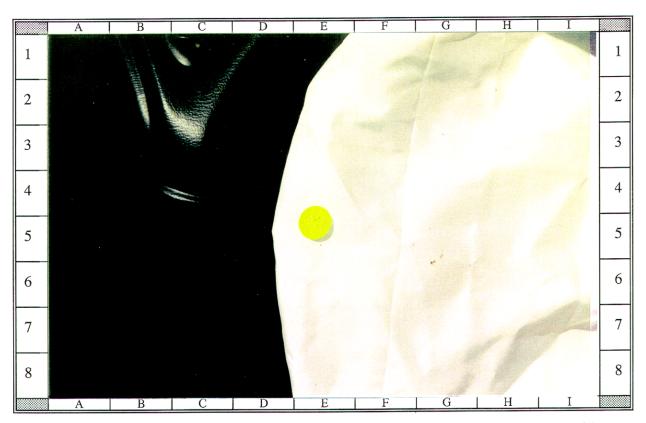
26: Case Vehicle's steering column, lower steering wheel rim, dash, and foot controls showing no evidence of contact to knee bolster or rim loading



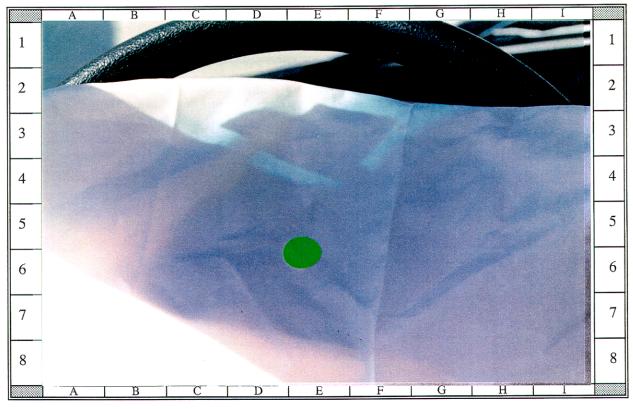
27: Vertical view of contact evidence to Case Vehicle's driver side air bag (green dots) and sunvisor (yellow tape)



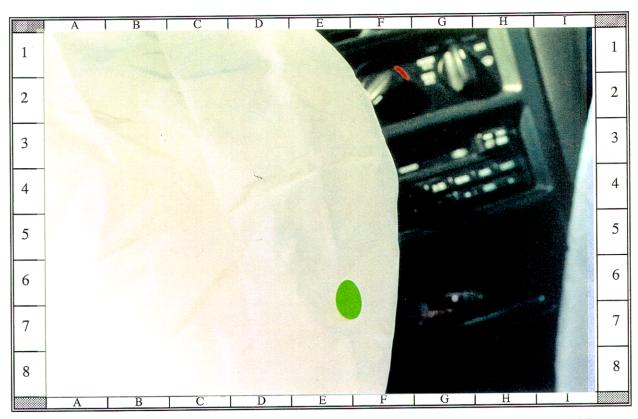
28: Close-up of contact evidence (make-up transfers and mucous--green dots) to upper half of Case Vehicle's driver side air bag; see cells B4, E2, and H5



29: Closer-up view of mucous smear to middle left side of Case Vehicle's driver side air bag



30: Closer-up view of eye make-up smear to top center portion of Case Vehicle's driver side air bag



31: Closer-up view of possible skin transfer to middle right side of Case Vehicle's driver side air bag



32: Case Vehicle's driver side air bag module's noncontacted top cover flap and two closely spaced vent holes



33: Case Vehicle's driver side sunvisor showing generant residue from driver side air bag's vent holes; NOTE: vent holes located at 11:30 and 12:30 positions



34: Closer-up view of air bag generant residue on corner of Case Vehicle's driver side sunvisor; NOTE: vent holes located at 11:30 and 12:30 positions



35: Case Vehicle's center console/drink holder showing contact from driver's right forearm; NOTE: tape near blood drop



36: Vertical overhead view of blood drops found on Case Vehicle's center console next to parking brake lever



37: Vertical view from outside of "D"-ring from Case Vehicle's driver side seat belt showing evidence of loading



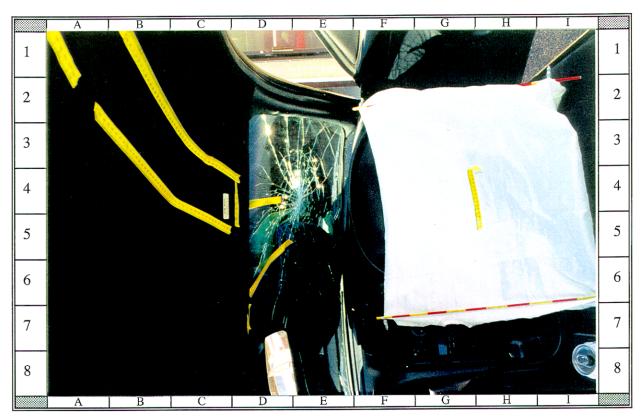
38: "D"-ring from Case Vehicle's driver side seat belt viewed from center front showing evidence of loading



39: Vertical close-up of Case Vehicle's driver side seatbelt webbing showing only storage mark near yellow tape



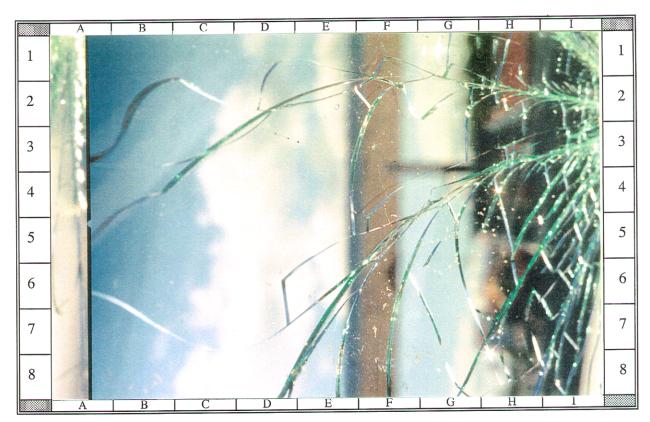
40: Panoramic view of Case Vehicle's deployed air bags; NOTE: contacts to right front (passenger side) windshield and sunvisor/roof



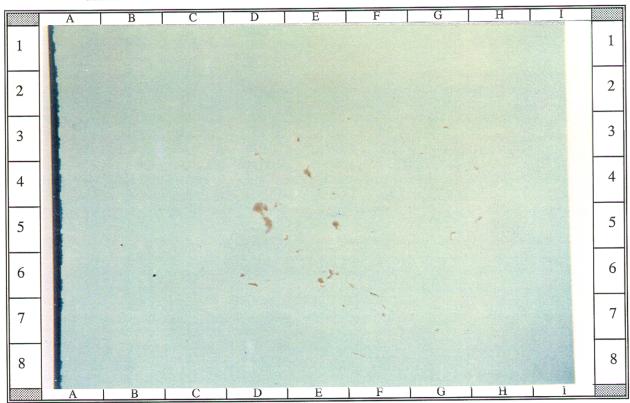
41: Vertical view of Case Vehicle's right front seating area showing contacts to right front air bag, windshield, sunvisor, and roof--highlighted by yellow tape



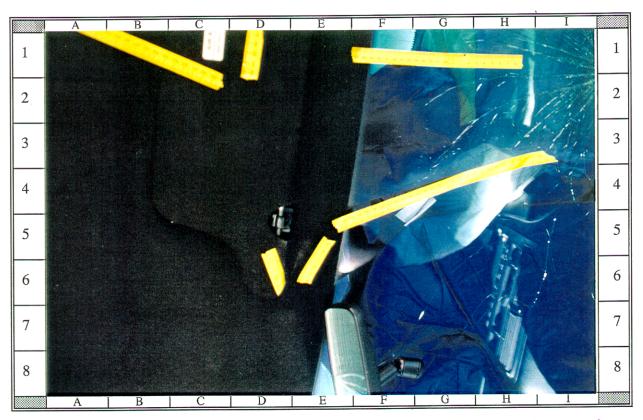
42: Close-up of Case Vehicle's right front windshield showing head contact; NOTE: rearview mirror and left corner of sunvisor were contacted by air bag



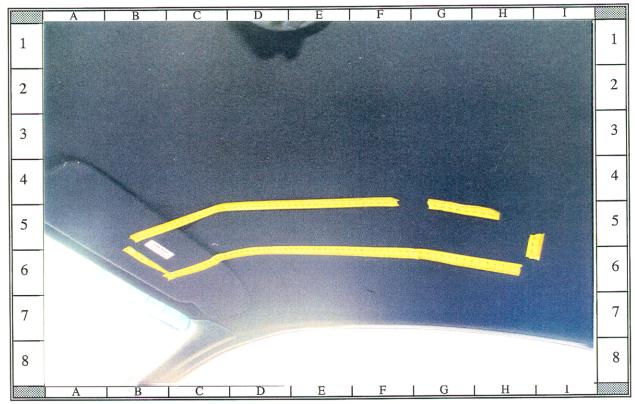
43: Vertical close-up of air bag exhaust spray on Case Vehicle's right front windshield above head contact



44: Close-up of evidence police collected from Case Vehicle's windshield contact; NOTE: definite hair but other evidence is most likely air bag exhaust



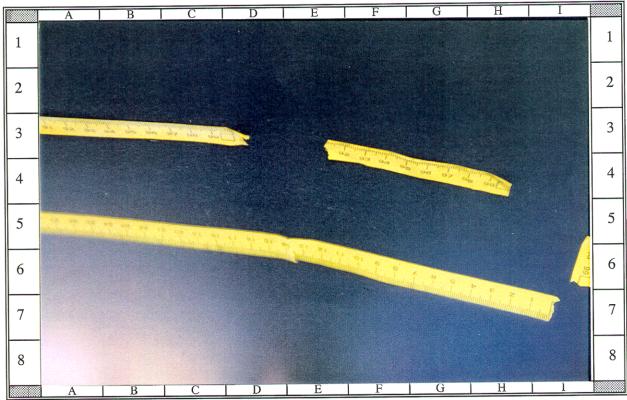
45: Vertical view of air bag contact to Case Vehicle's rearview mirror and corner of sunvisor; in addition, note exhaust spray to windshield



46: Case Vehicle's right front roof area viewed from driver's seat showing contact marks left by right front passenger



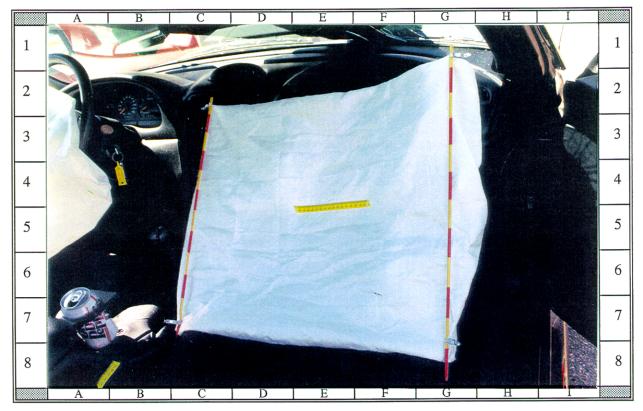
47: Close-up of Case Vehicle's right front roof area showing contacted sunvisor and probable skin transfer to roof made by right front passenger



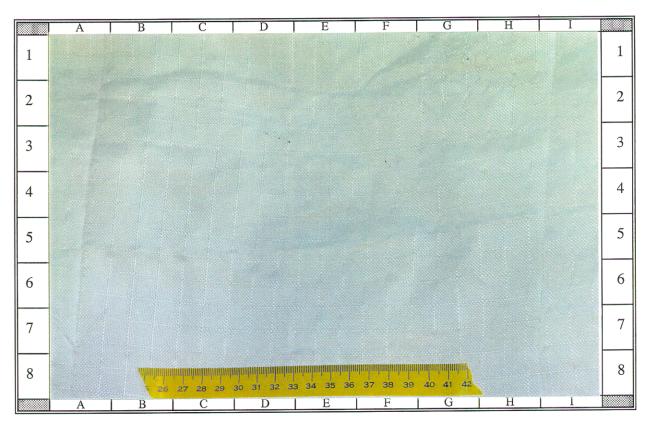
48: Close-up of probable skin transfer to Case Vehicle's right front roof made by right front passenger



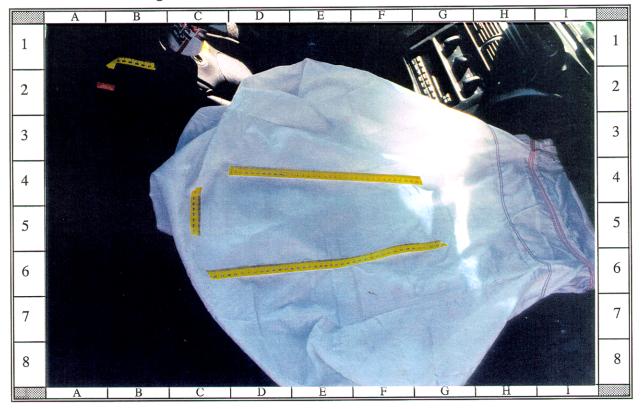
49: Vertical view of Case Vehicle's right front roof area from right rear seat showing roof contacts



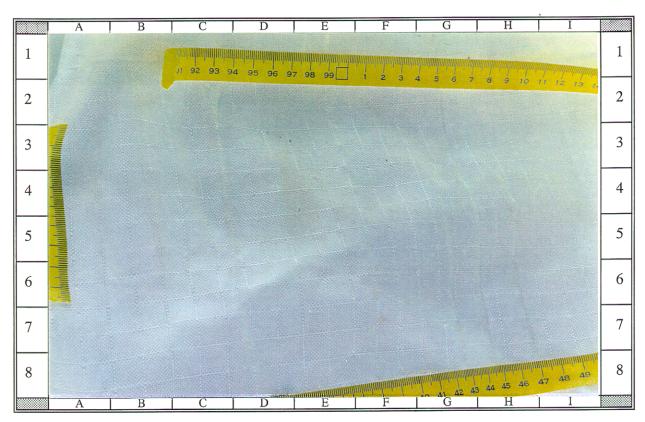
50: Case Vehicle's right front passenger side air bag; NOTE: tape in center indicates skin and oil smear



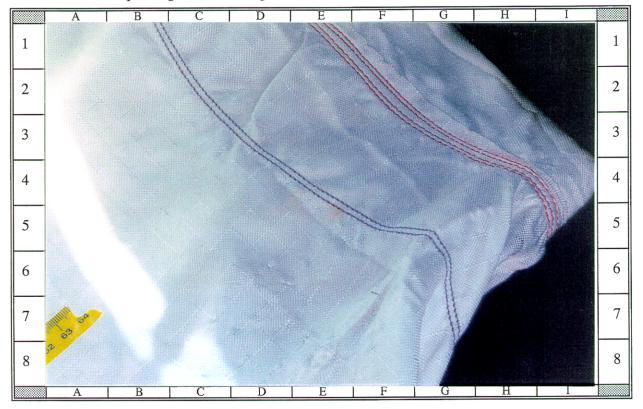
51: Close-up of skin and oil smears on front of Case Vehicle's right front passenger side air bag



52: Top portion of Case Vehicle's right front passenger side air bag showing skin transfers and oil smears (i.e., enclosed by tape)



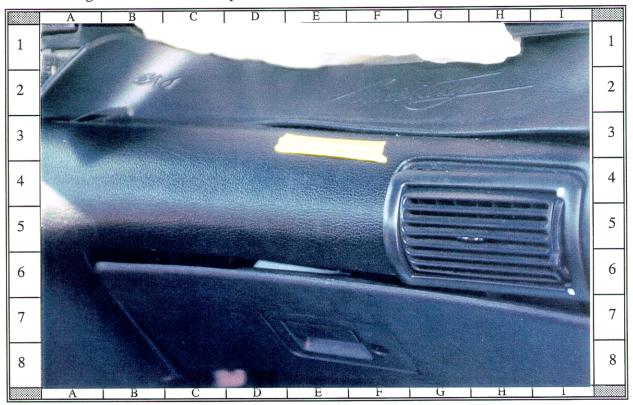
53: Close-up of skin transfers and oil smears to top portion of Case Vehicle's right front passenger side air bag



54: Close-up of apparent blood smear at top front of Case Vehicle's right front passenger side air bag; compare with cells H5--H6 of photograph #52 above



55: Case Vehicle's center and right front dash; NOTE: possible contact just above glovebox and below tape



56: Close-up of possible contact to Case Vehicle's right front dash (below tape) from right front passenger's lower torso



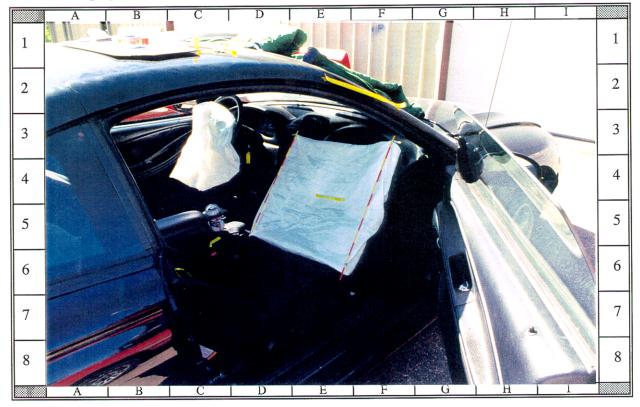
57: Dried blood stain on Case Vehicle's right front seatback from right front passenger



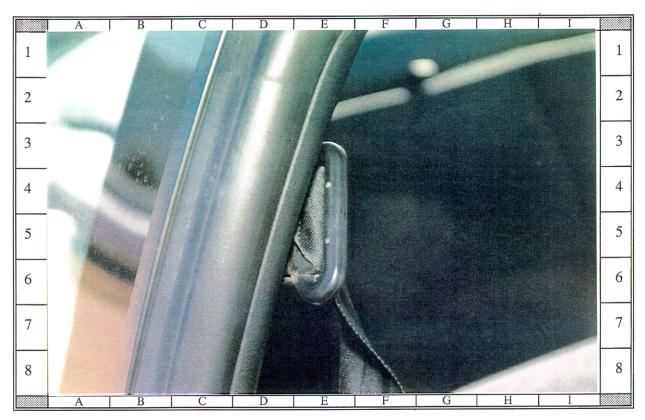
58: Blood smear (above tape) to passenger side of Case Vehicle's floor mounted center console



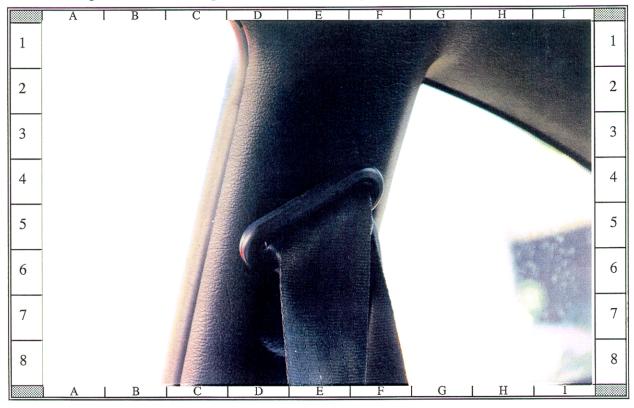
59: On-scene view of Case Vehicle's right front passenger seating area showing deployed driver and passenger side air bags; NOTE: passenger's seat reclined



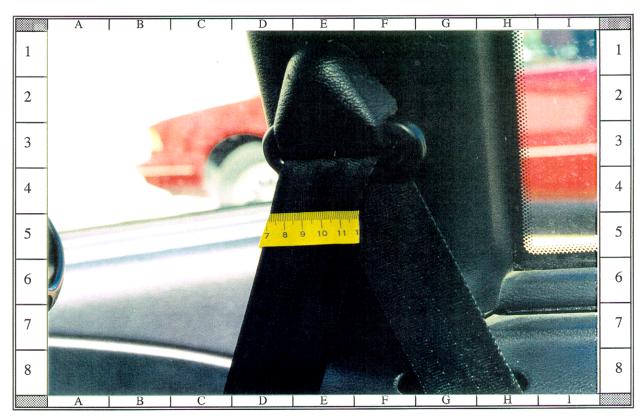
60: Case Vehicle's front seating area showing interior surface of right front passenger's door panel and deployed driver and passenger side (displayed) air bags



61: Underside view from outside of "D"-ring from Case Vehicle's right front passenger seatbelt showing no evidence of loading; NOTE: "D"-ring is nonadjustable



62: Front view from right front seat of "D"-ring from Case Vehicle's right front passenger seatbelt showing no evidence of loading



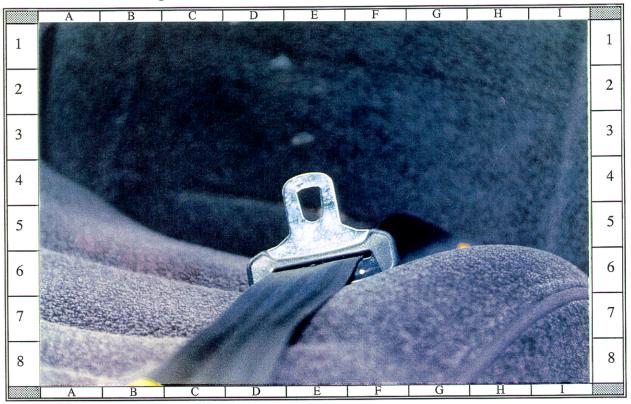
63: Front view from right rear seat of Case Vehicle's right front passenger side seatbelt webbing showing storage crease in webbing



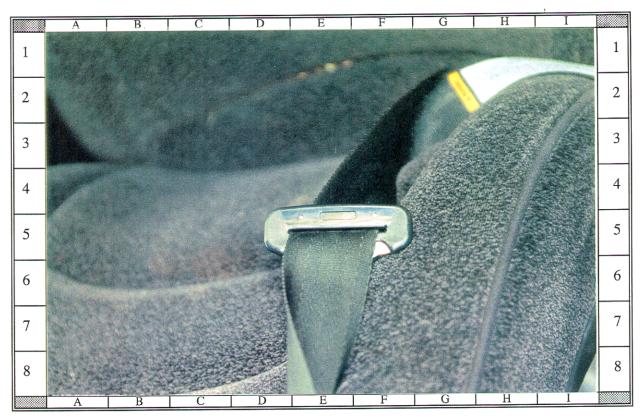
64: Case Vehicle's right front passenger side seatbelt webbing showing storage crease (between tape) in webbing



65: Vertical view of storage crease in Case Vehicle's right front passenger side seatbelt webbing; NOTE: no evidence of blood on webbing when latched



66: Front side of latch plate from Case Vehicle's right front passenger side seatbelt; NOTE: no evidence of loading, just prior usage



67: Backside of latch plate from Case Vehicle's right front passenger side seatbelt showing no evidence of loading



68: Case Vehicle's rear seating area showing right rear seat where passenger was seated; NOTE: three-point belts and integral head restraints in outboard seats



69: Case Vehicle's right front passenger seatback showing no evidence of contact from right rear passenger



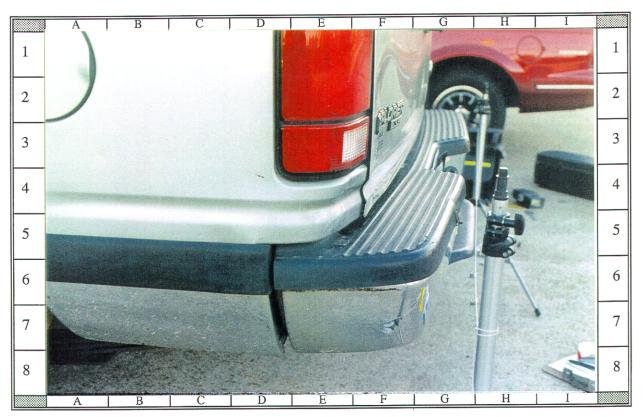
70: 1991 Ford Explorer XL's undamaged front



71: Vehicle #2's undamaged front and left side viewed from approximately 60 degrees left of front



72: Vertical reference line view of Vehicle #2's contacted rear bumper from left; NOTE: minimal deformation



73: Close-up reference line view from left of Vehicle #2's contacted back left corner; NOTE: slight deformation above bumper from Case Vehicle's hood



74: Vehicle #2's undamaged left side and damaged back left corner viewed from approximately 30 degrees left of back



75: Close-up of Vehicle #2's damaged back left corner viewed from approximately 10 degrees left of back; NOTE: only four C-measurements taken



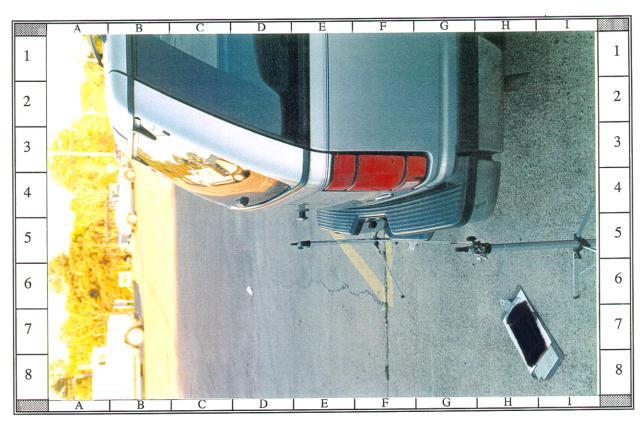
76: Vehicle #2's damaged back; NOTE: length of damage confined to back left (i.e., yellow tape)



77: Straight on closer-up view of Vehicle #2's damaged back left corner



78: Vehicle #2's damaged back and undamaged right side viewed from approximately 15 degrees right of back



79: Vertical reference line view of Vehicle #2's damaged rear bumper from right; NOTE: right rear bumper corner pulled out slightly



80: Vehicle #2's undamaged right side and front viewed from approximately 45 degrees right of front

Vehicle #2: 1991 Ford Explorer XL, 4-Door, RWD, 4x2, Sport Utility, 5-Passenger, 4.0 L (244 in³) V-6 EFI



81: Interior surface of Vehicle #2's driver door panel, driver's steering wheel, seating area, and front dash



82: Panoramic view of Vehicle #2's driver side greenhouse area, steering wheel, and dash; NOTE: no evidence of loading, but cracked windshield is previous damage



83: Panoramic view of Vehicle #2's right front passenger side greenhouse area and dash; NOTE: no evidence of loading, but cracked windshield is previous damage



84: Vehicle #2's front seating area and front dash viewed from outside right front passenger door

Vehicle #2: 1991 Ford Explorer XL, 4-Door, RWD, 4x2, Sport Utility, 5-Passenger, 4.0 L (244 in3) V-6 EFI



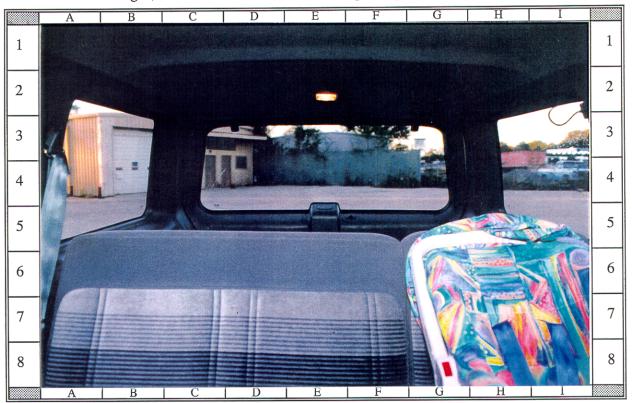
85: Interior surface of Vehicle #2's right front passenger's door panel, seating area, and dash



86: Vehicle #2's rear seating area from left; NOTE: child safety seat located in center rear position at time of crash and no evidence of loading to driver's seatback



87: Interior surface of Vehicle #2's right rear door panel and right rear seating area from right; NOTE: no evidence of loading to right front passenger's seatback



88: Vehicle #2's rear seat and cargo area viewed from the front seat

WARNING

The following page contains photographs with graphic detail which show the tragic consequences of a motor vehicle crash!

"GRAPHIC" PHOTOGRAPHS AND IMAGES

The following "GRAPHIC" Photographs and Images have been removed from this case.

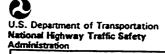
Photo # 89,90

If you would like a copy of these photographs and/or images please write to:

MARJORIE SACCOCCIO VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER 55 BROADWAY CAMBRIDGE, MA 02142

In the body of your request please include the case, photograph and image number(s).

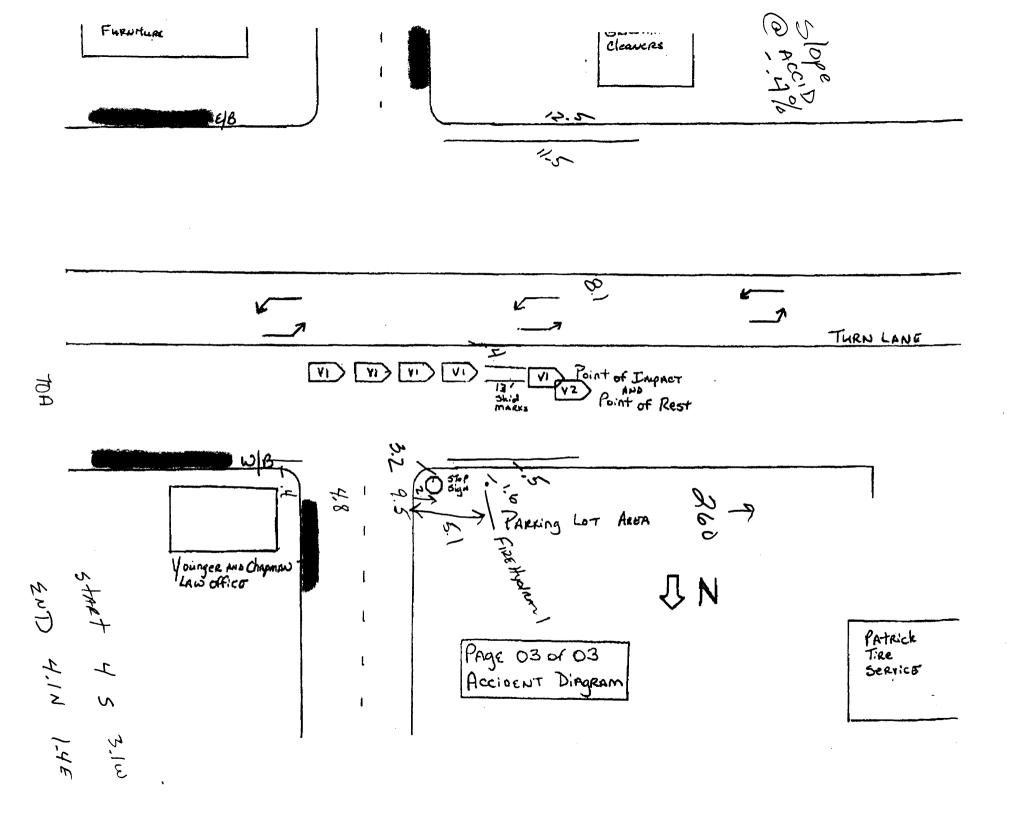
ACCIDENT COLLISION MEASUREMENT TABLE



ACCIDENT COLLISION MEASUREMENT TABLE

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number / O	Case N	Iumber-Stratum 96 2 5
ACCIDENT COLLISION DIAGRA		dumber – Stratum _ 7 6 8 9
all road/roadway delineation (e.g., curbs/edge lines, lane markings, median markings, payement markings, period vehicles, poles, argis, etc.) all traffic controls (e.g., argis/argis), etc.) north arrow placed on diagram roadway surface type and condition of applicable roadway; grade-measurements for all applicable to address and at location of rodover all physical	esentations of the vehicle(s) at impact, and final rest-based call evidence; or structed accident dynamics	CRASH DATA VEH. #1 VEH. #2 VEH. # Heading Angle Surface Type Condition Coefficient of Friction Grade (v/h) Measurement (between impact and final rest) Grade (v/h) Measurement (at location of rollover initiation) Grade (v/h) Measurement (at pre-crash location)
Reference Point:	Reference line:	
Item	Distance and Directi from Reference Poir	on Distance and Direction from Reference Line



NASS CDS ACCIDENT FORM

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Administration	•				CRASHWORTHI	VESS DATA SYST
1. Primary Sam	npling Unit Numb	er /	0	SPECIAL STUD		
2. Case Numbe		962	has	ck (🗸) each special s been completed; co es and O for the spec	de 1 for the ch	ecked special
		ION	6.	SS15 Admin	istrative Use	0
3. Number of G Forms Subm		0	2 7.		rian Crash Data	
4. Date of Acci		9	6 8.		ecial study available J	Study <u>0</u>
5. Time of Acci	dent	161	8 9.		Driver Actions	<u> </u>
Code rep	orted military tim	e of accident.	_ "	OOTO Onsale	Diver Actions	
NOTE: N	Midnight = 2400 Inknown = 9999)	10.	SS19 Run Of	f Road	. 0
				NUMBER	OF EVENTS	
				Number of Recorded n This Accident		01
				Code the number of n this accident.	events which o	ccurred
		ACCIE	ENT EVEN	TS		
For each event to involved vehicle	that occurred in the or object in the ri	accident, code the ght columnns.	lowest numb	ered vehicle in the lef	t columns and the	other
Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage
12. <u>0 1</u>	13. 🔼 📗	14. <u>0</u> <u>2</u>	- 15. <u>F</u> -	16. <u>0</u> <u>2</u>	17. <u>/ 4</u>	18. <u>B</u>
19. 0 2	20	21	22	23	24	25
26. 0 3	27	28	29	30	31	32
33 <u>0 4</u>	34	35	36	37	38	39
40. 0 5	41	42	43	44	45	46
IF GREA	TER THAN FIVE E	VENTS, CONTINUI	E CODING ON	THE ACCIDENT EVE	NT SUPPLEMEN	т

CODES FO	CLASS OF VEHICLE	
CV: 101,3 → 257	OLNOU DI VEINGLE	
(00) Not a motor vehicle	(31) Large pickup truck (≤ 4,536 kgs GVWR)	
(01) Subcompact/mini (wheelbase < 254 cm)	(38) Other pickup truck (≤ 4,536 kgs GVWR)	
(02) Compact (wheelbase ≥ 254 but < 265 cm)	(39) Unknown pickup truck type (≤ 4,536 kgs GVWF	₹
(03) Intermediate (wheelbase ≥ 265 but < 278 cm)	(45) Other light truck (≤ 4,536 kgs GVWR)	•
(04) Full size (wheelbase ≥ 278 but < 291 cm)	(48) Unknown light truck type (± 4,536 kgs GVWR)	
(05) Largest (wheelbase ≥ 291 cm)	(49) Unknown light vehicle type	
(09) Unknown passenger car size	(50) School bus (excludes van based)(>4,536 kgs G	VWF
(14) Compact utility vehicle	(58) Other bus (> 4,536 kgs GVWR)	• • • • • • • • • • • • • • • • • • • •
(15) Large utility vehicle (≤ 4,536 kgs GVWR)	(59) Unknown bus type	
(16) Utility station wagon (≤ 4,536 kgs GVWR)	(60) Truck (> 4,536 kgs GVWR)	
(19) Unknown utility type	(67) Tractor without trailer	
(20) Minivan (≤ 4,536 kgs GVWR) /2: 112.0=	• •	
(21) Large van (≤ 4,536 kgs GVWR)	(78) Unknown medium/heavy truck type	
(24) Van Based school bus (≤ 4,536 kgs GVWR)	(79) Unknown light/medium/heavy truck type	
(28) Other van type (≤ 4,536 kgs GVWR)	(80) Motored cycle	
(29) Unknown van type (≤ 4,536 kgs GVWR)	(90) Other vehicle	
(30) Compact pickup truck (≤ 4,536 kgs GVWR)	(99) Unknown	
CODES EOD CENEDA	ADEA OF DAMAGE (OAD)	
	AREA OF DAMAGE (GAD)	
AND OTHER	R) Right side (T) Top	
VEHICLES IN E	L) Left side (U) Undercarriage	
(1/ 110H)	3) Back (9) Unknown	
TDC (0) Not a motor vehicle	Left side (C) Rear of cab	
ADDITO ADIT	(o) field of cap	- 1
VEHICLES (F) Front		area
* * * * * * * * * * * * * * * * * * * *		l
, , , , , , , , , , , , , , , , , , , ,	D) Back (rear of tractor) (U) Undercarriage (9) Unknown	- 1
Noncollision (31) Overturn — rollover (excludes end-over-end) (32) Rollover — end-over-end (33) Fire or explosion (34) Jackknife (35) Other intraunit damage (specify): (36) Noncollision injury (38) Other noncollision (specify): (39) Noncollision — details unknown Collision With Fixed Object (41) Tree (< 10 cm in diameter) (42) Tree (> 10 cm in diameter) (43) Shrubbery or bush (44) Embankment (45) Breakaway pole or post (any diameter) Nonbreakaway Pole or Post (50) Pole or post (< 10 cm in diameter) (51) Pole or post (> 30 cm in diameter) (52) Pole or post (> 30 cm in diameter) (53) Pole or post (diameter unknown)	(58) Wall (59) Building (60) Ditch or culvert (61) Ground (62) Fire hydrant (63) Curb (64) Bridge (68) Other fixed object (specify): (69) Unknown fixed object Collision with Nonfixed Object (70) Passenger car, light truck, van, or other vehicle not in-transport (71) Medium/heavy truck or bus not in-transport (72) Pedestrian (73) Cyclist or cycle (74) Other nonmotorist or conveyance (75) Vehicle occupant (76) Animal (77) Train (78) Trailer, disconnected in transport (79) Object fell from vehicle in-transport	
(54) Concrete traffic barrier	(88) Other nonfixed object (specify): (89) Unknown nonfixed object	
(55) Impact attenuator		
(56) Other traffic barrier (includes guardrail) (specify):	(98) Other event (specify):	

NASS CDS VEHICLE FORMS: CASE VEHICLE

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

	CRASHWORTHINESS DATA SYS
1. Primary Sampling Unit Number / O	12. Speed Limit D 40
2. Case Number - Stratum 9625	(000) No statutory limit Code posted or statutory speed limit in kmph
3. Vehicle Number	(999) Unknown
VEHICLE IDENTIFICATION	$\frac{25}{100}$ mph x 1.6093 = $\frac{40}{100}$ kmph
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	13. Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present
5. Vehicle Make (specify):	(9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): MUSTANG Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source: INV- Officer
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present
8. Vehicle Identification Number	(7) Not reported (8) No driver present (9) Unknown
Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use	(3) Specimen test given, results unknown or not
(1) Taxi (2) Vehicle used as school bus	obtained (8) No driver present
(3) Vehicle used as other bus (4) Military	(9) Unknown if specimen test given
(5) Police (6) Ambulance	17. Driver's Zip Code
(7) Fire truck or car	(00001) Driver not a resident of U.S. or territories
(8) Other (specify):(9) Unknown	Code actual 5-digit zip code
OFFICIAL RECORDS	(99998) No driver present (99999) Unknown
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic)
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	 (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present
mph X 1.6093 = kmph	(9) Unknown

CODES FOR BODY TYPF

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (s 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager (83 and before), E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (< 4,536 kgs GVWR)
- (23) Van based motorhome (s 4,536 kgs GVWR)
- (24) Van based school bus (s 4,536 kgs GVWR)
- (25) Van based other bus (s 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Ünknown van type

Light Conventional Trucks (Pickup style cab, 4,536 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR s 8,845 kgs)
- (62) Single unit straight truck (8,845 kgs < GVWR s 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer(68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DAT	Λ.		
	THEONASTI ENVIRONMENTAL DAT	A	25. Roadway Surface Condition	1
1,0) Polosian Tallannal C. 4	2	(1) Dry	_/_
'*	9. Relation To Interchange Or Junction	α	- (2) Wet	
	(0) Non-interchange area and non-junction		1	
İ	(1) Interchange area related		(3) Snow or slush	
	·		(4) Ice	
	Non-Interchange junctions		(5) Sand, dirt, or oil	
1	(2) Intersection related		(8) Other (specify):	
1	(3) Driveway, alley access related		(9) Unknown	
ł	(4) Other junction (specify)		(0, 0	
1	(4) Other junction (specify)			1
1	151		26. Light Conditions	/
[(5) Unknown type of junction		(1) Daylight	
1			(2) Dark	
l	(9) Unknown		(3) Dark, but lighted	
l	•		-(4) Dawn	
l				
20.	. Trafficway Flow	٥	(5) Dusk	
	(0) Not physically divided (two way traffic)		(9) Unknown	
l	(1) Divided trafficway-median strip without			
ŀ	Positive basis			
	positive barrier		27. Atmospheric Conditions	
	(2) Divided trafficway-median strip with posit	tive	(0) No adverse atmospheric-related driving	
	barrier		conditions	
	(3) One way traffic		(1) Rain	
	(9) Unknown		(2) Sleet/hail	
			• • • • • • • • • • • • • • • • • • • •	
		2	(3) Snow	
21.	Number Of Travel Lanes	2	(4) Fog	
	(1) One		(5) Rain and fog	1
	(2) Two		(6) Sleet and fog	i
	(3) Three		(7) Other (e.g., smog, smoke, blowing sand of	ر. ا
	(4) Four		dust, etc.) (specify):	"
	(5) Five			
	(6) Six		(9) Unknown	ı
	(7) Seven or more			1
	(9) Unknown		28. Traffic Control Device	/ /
	(3) Olikilowii		(0) No traffic control(s)	
		1		i
22.	Roadway Alignment	- 1	(1) Traffic control signal (not RR crossing)	1
	(1) Straight	'		1
	(2) Curve right		Regulatory	1
	(3) Curve left		(2) Stop sign	- 1
			(3) Yield sign	- 1
	(9) Unknown		(4) School zone sign	- 1
	770		(5) Other regulatory sign (specify):	
23.	Roadway Profile	1	, , , , , , , , , , , , , , , , , , ,	
	(1) Level		(6) Warning sign (not RR crossing)	- 1
	(1) Uphill grade (>2%)		(7) Unknown sign	
				- 1
	(3) Hill crest		(8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)		controls (specify):	
	(5) Sag		(0)	
(9) Unknown	- 1	(9) Unknown	
		- 1		- 1
) A C	Ponduou Custona Toma	7 1		~ 1
. . ľ	Roadway Surface Type	4	29. Traffic Control Device Functioning	\angle
	1) Concrete	l	(0) No traffic control device	
(2) Bituminous (asphalt)	ļ	(1) Traffic control device not functioning	
	3) Brick or block	- 1	(specify):	1
(4) Slag, gravel, or stone	j	•	
	5) Dirt	- 1	(2) Traffic control device functioning properly	1
(8) Other (specify):	l	(9) Unknown	
(9) Unknown		,	
		1	्द .	1

	PRECRASH DRIVER RELATED DATA	ТН	IS VEHICLE TRAVELLING
30. 1	Oriver's Distraction/Inattention To Driving) Over the lane line on left side of travel lane
1 (Prior To Recognition Of Critical Event)	1 711) Over the lane line on right side of travel lane
1 (00) No driver present	(12) Off the edge of the road on the left side
	01) Attentive or not distracted	(13) Off the edge of the road on the right side
(02) Looked but did not see	(14) End departure
1	Distractions		Turning left at intersection
1 1	03) By other occupant(s) (specify):	(16	Turning right at intersection
1 '	03) By other occupant(s), (specify): 1 A 1 King 2 Listen in 9 ti look in 04) By moving object in vehicle (specify):	h (17	Crossing over (passing through) intersection
1 6	04) By moving object in vehicle (specify):	(18	This vehicle decelerating
1 '	or, by moving object in vertice (specify).	(19	Unknown travel direction
1 0	05) While talking or listening to cellular phone (specify	(1.5)	CHAIDWII BAVEI GII ECGOII
1 `	location and type of phone):	07	HER MOTOR VEHICLE IN LANE
l			Other vehicle stopped
1 (06) While dialing cellular phone (specify location and	(51)	Traveling in same direction with lower steady
1 `	type of phone):	(31)	speed
j		(52)	
1 (07) While adjusting climate controls	(52)	Traveling in same direction while decelerating
	08) While adjusting radio, cassette, CD (specify):	(53)	Traveling in same direction with higher speed
1	• • • • • • • • • • • • • • • • • • • •		Traveling in opposite direction
1 (9) While using other device/controls integral to vehicle		In crossover
	(specify):		Backing
(1	0) While using or reaching for device/object brought	(59)	Unknown travel direction of other motor vehicle in
i	into vehicle (specify):		lane
(1	1) Sleepy or fell asleep		
(1	2) Distracted by outside person, object, or event		IER MOTOR VEHICLE ENCROACHING INTO
	(specify):	LAN	-
(1	3) Eating or drinking	(60)	From adjacent lane (same direction)—over left lane
(1	4) Smoking related		line
(9	7) Distracted/inattentive, details unknown	(61)	From adjacent lane (same direction)—over right
(9	8) Other, distraction (specify):		lane line
		(62)	From opposite direction—over left lane line
(9	9) Unknown	(63)	From opposite direction—over right lane line
31. Pi	re-Event Movement (Prior to	(64)	From parking lane
	ecognition of Critical Event)	(65)	From crossing street, turning into same direction
	0) No driver present	(66)	From crossing street, across path
	1) Going straight	(67)	From crossing street, turning into opposite direction
(0	2) Decelerating in traffic lane	(68)	From crossing street, intended path not known
(0	3) Accelerating in traffic lane	(70)	From driveway, turning into same direction
	4) Starting in traffic lane	(71)	From driveway, across path
(0	5) Stopped in traffic lane	(72)	From driveway, turning into opposite direction
(0	6) Passing or overtaking another vehicle	(73)	From driveway, intended path not known
(0	7) Disabled or parked in travel lane	(74)	From entrance to limited access highway
(0	B) Leaving a parking position	(78)	Encroachment by other vehicle—details unknown
(0	9) Entering a parking position	, ,	, and a management
(10	0) Turning right	PEDI	ESTRIAN, PEDALCYCLIST, OR OTHER
	1) Turning left		MOTORIST
(14	2) Making a U-turn	(80)	Pedestrian in roadway
(1,	B) Backing up (other than for parking position)		Pedestrian approaching roadway
(1)	1) Negotiating a curve		Pedestrian—unknown location
	5) Changing lanes 3) Merging		Pedalcyclist or other nonmotorist in roadway
	7) Successful avoidance maneuver to a previous	\	(specify):
("	critical event		Pedalcyclist or other nonmotorist approaching
(97	7) Other (specify):	(5.7	roadway, (specify):
)) Unknown	(85)	Pedalcyclist or other nonmotorist—unknown
•	·	(00)	location (specify):
	itical Precrash Event <u>5</u>		
TH	IS VEHICLE LOSS OF CONTROL DUE TO:	OBJE	CT OR ANIMAL
(01) Blow out or flat tire		Animal in roadway
(02	2) Stalled engine	(88)	Animal approaching roadway
(03	Disabling vehicle failure (e.g., wheel fell off)	(89)	Animal—unknown location
	(specify):		Object in roadway
(04) Non-disabling vehicle problem (e.g., hood flew up)	(91)	Object in roadway Object approaching roadway
	(specify):	(92)	Object—unknown location
(05	Poor road conditions (puddle, pot hole, ice, etc.)	(98)	Other critical precrash event (specify):
(00	(specify):	(50)	outs. Gracer program event (specity):
(06	Traveling too fast for conditions	(99) i	Unknown
(08	Other cause of control loss (specify):	(33)	O I MANOWELL
(09	Unknown cause of control loss		
,	,		

33. Attempted Avoidance Maneuver	35. Pre-Impact Location
(00) No driver present	1
(01) No avoidance maneuver	(0) No driver present
, , , , , , , , , , , , , , , , , , , ,	(1) Stayed in original travel lane
(02) Braking (no lockup)	(2) Stayed on roadway but left original travel
(03) Braking (lockup)	lane
(04) Braking (lockup unknown)	(3) Stayed on roadway, not known if left original
(05) Releasing brakes	travel lane
(06) Steering left	(4) Departed roadway
(07) Steering right	(5) Remained off roadway
(08) Braking and steering left with leck-up	(6) Returned to roadway
(09) Braking and steering right	(7) Entered roadway
(10) Accelerating	(9) Unknown
(11) Accelerating and steering left	
(12) Accelerating and steering right	
(98) Other action (specify):	36. Accident Type
·	(Note: Applicable codes on back of this
(99) Unknown	page)
	F - 0 - 1
	(00) No impact
34. Pre-Impact Stability	Code the number of the diagram that best
(0) No driver present	describes the accident circumstance
(1) Tracking	(98) Other accident type (specify):
(2) Skidding longitudinally—rotation less than 30	toor other accident type (specify).
degrees	(99) Unknown
(3) Skidding laterally—clockwise rotation	(99) CHRIOWH
(4) Skidding laterally—counterclockwise rotation	
(7) Other vehicle loss-of-control (specify):	
(7) Other Vericle 1033-01-control (specify).	İ
(9) Precrash stability unknown	
(a) Trecidati atability difficiowit	

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

Cate	Configur-	ACCIDENT TYPES (Includes Intent)		
	A Right Roadside Departure	1	04 SPECIFICS OTHER	05 SPECIFICS UNKNOWN
Single Driver	B Left Roadside Departure		09 SPECIFICS OTHER	10 SPECIFICS UNKNOWN
_	C Forward Impact		15 SPECIFICS OTHER	16 SPECIFICS UNKNOWN
rwa) Inn	D - Rear-End	STOPPED SLOWER DECEL. 31 S	EACH • 32) PECIFICS	(EACH • 33) SPECIFICS UNKNOWN
II. Same Trafficway Same Direction	E Forward Impact	CONTROL/ CONTROL/ AVOID COLLISION WITH VEH. WITH OBJECT	(EACH • 4	SPECIFICS UNKNOWN
	F Sideswipe Angle	45 45 (EACH · 48) SPECIFICS OTHER	(EACH SPECIFIC	· 49) s unknown
ay Chinh	G Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS CATERAL MOVE OTHER SPECIFICS UNKNOWN		
Same Trafficway Opposite Direction	H Forward Impact	CONTROL/ TRACTION LOSS 55 56 57 58 59 60 60 60 60 60 60 60 60 60 6	1	2)(EACH • 63) SPECIFICS UNKNOWN
Ħ	l Sideswipe Angle	64 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER		
Change Trafficway Vehicle Turning	J. Turn Across Path	69 71 70 73 72 INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS	SPECIFICS	(EACH • 75) SPECIFICS UNKNOWN
IV Change Vehicle	K Turn Into Path	77 79 81 82 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS		(EACH • 85)
V Interveus ing Paths (Vehicle Dainage)	L Straight Paths	87 (EACH • 90) 88 89 SPECIFICS OTHER	(EACH • 91) SPECIFICS UN	
VI Miscel laneous	M Backing Eic	92 93 OTHER VEH OR OBJECT BACKING VEH 98 Öther Accident T 99 Unknown Accide 00 No Impact	ype nt Type	

OCCUPANT RELATED	11 Vahiala Caraa Waish
37. Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	44. Vehicle Cargo Weight Code weight to nearest 10 kilograms. (000) Less than 5 kilograms (454) 4,536 kilograms or more (999) Unknown Dibs X .4536 = kgs
38. Number of Occupants This Vehicle (00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown	Source: Interviewee ROLLOVER DATA
39. Number of Occupant Forms Submitted 5	(00) No rollover (no overturning)
AIR BAG RELATED 40. Is this an AOPS Vehicle? (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns (17) Rollover, 17 or more quarter turns (specify): (98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown 46. Rollover Initiation Type (00) No rollover
41. Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed Single Air Bag Vehicle (2) Driver air bag deployed (3) Driver air bag, unknown if deployed Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if deployed (8) Air bag(s) deployed, details unknown (9) Unknown 42. Air Bag(s) Deployment, Other Than First Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown	(01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over (06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify): (98) Rolloverend-over-end (99) Unknown rollover initiation type 47. Location of Rollover Initiation (0) No rollover (1) On roadway (2) On shoulder – paved (3) On shoulder – unpaved (4) On roadside or divided trafficway median (8) Rolloverend-over-end (9) Unknown 48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page) 49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane (3) End plane (4) Undercarriage (5) Other location on vehicle (specify):
VEHICLE WEIGHT ITEMS	(6) Non-contact rollover forces (specify): (8) Rolloverend-over-end (9) Unknown
Vehicle Curb Weight Code weight to nearest 10 kilograms. (045) Less than 454 kilograms (612) 6,124 kilograms or more (999) Unknown 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rolloverend-over-end (9) Unknown roll direction

OVERRIDE/	UNDERRIDE (THIS VEHIC	CLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override	e/Underride (this Vehicle)	4	HIGHEST DELTA V
(0) No overrid impact be	/Underride (this Vehicle) de/underride, or not an end-to tween two CDS applicable ve	ehicles,	58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection
Override (see (Between 2 CDS (1) 1st CDC (2) 2nd CDC	edium/heavy truck or bus und specific CDC) applicable vehicles (Bodytype, GV07 automated CDC (specify):		Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
(Between 2 CDS) (4) 1st CDC (5) 2nd CDC	e specific CDC) applicable vehicles (Bodytype, GV07 automated CDC (specify):	= 1-49]]	Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
configurati (9) Unknown			All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
HEADING	ANGLE AT IMPACT FOR GHEST DELTA V	{	reconstruction technique, regardless of adequacy of damage data.
(996) (997) (998) (999)	(359) Code actual value Non-horizontal impact Noncollision Impact with object Unknown		(05) Rollover(06) Other non-horizontal forces(07) Sideswipe type damage(08) Severe override(09) Yielding object
53. Heading Angle 54. Heading Angle		2	(10) Overlapping damage (11) All vehicle and collision conditions are within
RECO	NSTRUCTION DATA	20	scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify):
55.Towed Trailing (0) No towed u (1) Yes—towed (9) Unknown	nit	0	
 Documentation for This Vehicle (0) No (1) Yes 	of Trajectory Data	1	(98) Other, (specify):
(For Highest De (0) Not collision tree or pole (1) Not damage (2) Cracked/she (3) Tilted <45 d (4) Tilted ≥45 d (5) Uprooted tre (6) Separated pole (7) Pole replaced	d (for highest delta V) with deared degrees de	0	
(8) Other (speci	iy):		

COMPUTER GENERA	ATED CRASH SEVERITY
59. Total Delta V	t Highest
Nearest kmph (highest) Nearest kmph (secondary)	Nearest kmph (highest) Nearest kmph (secondary)
(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
60. Longitudinal Component of Delta V	DELTA V CONFIDENCE LEVEL
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
61. Lateral Component of Delta V + O O O	OTHER SPEED ESTIMATE
Nearest kmph (highest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest 62. Energy Absorption	Highest 65. Barrier Equivalent Speed COOC Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (1999) Unknown
Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown	

ESTIMATED DELTA V	INSPECTION TYPE
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection DELTA V EVENT NUMBER 68. Delta V Event Number Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown
	/AS NOT INSPECTED (I.E., GV67=0), *** OR AND INTERIOR VEHICLE FORMS

THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

EXTERIOR VEHICLE FORM

NAI

1.	Primary	Sampling	Unit	Number
----	---------	----------	------	--------

3. Vehicle Number

2. Case N	umber - Stratum	1000		
		VEHICLE IDE	NTIFICATION	
VIN	FALP. e (specify): FUT	20	Vehicle Model (specify):	Model Year 95 MUSTANG
		LOCA	TOR	
Locate the impacts or a	end of the damage with an undamaged axle for sid	respect to the vehic de impacts.	le's damaged center point or	bumper corner for end
Specific Impact	No. Location of Direct	Damage	Location of Field L	Location of Max Crush
01	B)BC OVER 4	14cm Acr	:055 front Bumpe	c C6
	G	RUSH PROFILE I	N CENTIMETERS	
NOTES: Idei sill,		he C-measurements	are taken (e.g. at humper a	bove bumper, at sill, above
Mea imp	asure C1 to C6 from drive	er to passenger side	in front or rear impacts and r	ear to front in side

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

	Specific		Durant	Damage	T	1		1	·			
	Impact Number	Plane of Impact C-Measurements	Width (CDC)	Max Crush	Field	С,	С,	С,	C ₄	С,	C ₆	± D
₹ }	61	Front Bumper FREE	44		146	13,5	4.5	/	1/	5	14	
5						13.5	45	1	1	4.5	13.5	
		RESultant				0	0	0	0	.5	.5	+5/
_												
-	- 1											
	0)	Above bumper FREE RESLUTANT									47	
}		77.22									43	
}		KESWITANT									4	
-												
- -	01	Eco.+R	, , , , ,									
` -		Front Bumper	44	.5	58	0	.25	.5	.5			451
ŀ	Note:	Field MED	4 41 00				1,					
-	14012.	whale for	<u>surem</u>	ents \$	<u>u bse</u>			c.hay	ged	5/	nce	
L		whole fro damage	M BU	mperi	aid	not		bust	ain	•	irec	+
Н	5 Form 435A	(Rev 1/96)		17	l							

1 to 1

ORIGINAL SPECIFICATIONS WORK SHEET

101.3 inches x 2.54 = 257 cm Wheelbase inches x 2.54 = $\frac{\cancel{4} \cancel{6} \cancel{1}}{\cancel{1}}$ Overall Length 7/.8 inches x 2.54 = 182 cm Maximum Width pounds x 0.4536 = 1/395 kg Curb Weight inches x 2.54 = 152 cm **Average Track** $\underline{\qquad \qquad 4 \ \mathcal{D} \cdot \mathcal{A} } \quad \text{inches} \quad \mathbf{x} \quad \mathbf{2.54} \quad = \quad \underline{\qquad } \underline{\qquad } \mathcal{D} \quad \underline{\mathcal{A}} \quad \mathbf{cm}$ Front Overhang $\underline{-} \underline{\cancel{1}} \underline{\cancel{0}} \underline{\cancel{2}}$ inches x 2.54 = $\underline{\cancel{1}} \underline{\cancel{0}} \underline{\cancel{2}}$ cm Rear Overhang Undeformed End Width $\underline{57.5}$ inches x 2.54 = $\underline{146}$ cm $\underline{\hspace{1cm}}$ gine Size: cyl/displ. 4 possenger, V-6 232 CID x 0.0164 = 3.8 L

Weight, 5-speed manual 2,952
100
Curb Weight 3,052

SPECIAL CRASH INVESTIGATION ADDENDUM

Submodel Designation: {specify} Color: {specify} B|_{Ac} \times Repair Cost: \$

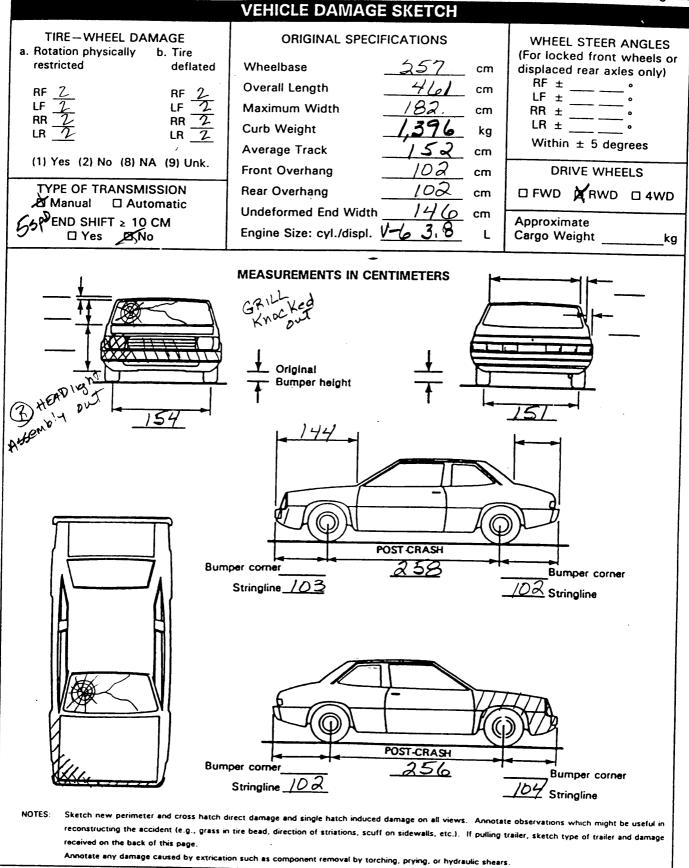
Transmission: {circle} Automatic | Manual Speed: 3-speed | 4-speed | 5-speed | Other:

Steering: {circle} Power-assisted | Manual Type: rack-and-pinion | worm-and-gear | Other {please describe}:

Brakes: {circle} Power-assisted | Manual Type: 4-wheel disc | 4-wheel drum | 4-wheel hydraulic front disc, rear drum | Other:

Observed Defects: {specify}

Fleet Type: {circle} Private vehicle | Rental vehicle | Leased vehicle | Commercial vehicle | Other {please describe}:



AUTOMOBILE REFERENCE BOOK-PASSENGER CAR SECTION

	MOBILE F			OK-PAS			ECTION	
FORD Motor Co., The	Americ	an Ro Whee	Dim	ensions	- Strains	nigan	Factory	Factory
Pass. Cap.	Model	Base	• • • • • • • • • • • • • • • • • • • •	nches Wt. x Ht.	Ship. Wt.	Tax H.P.	List Price	Del'd Price
5-PS 2-dr LX Sedan Options Thunderbird: Destination (Bucket Seats LX -\$490 SC-\$615; / Theft System(18A)-\$235; Keyless Telephone(516)-\$530; Traction A: w/JBL Audio System-\$500 w/CD-\$7 Group LX-\$580 SC-\$555 FORD Motor Co., The	Charges-\$4 Anti-lock B Entry Syst ssist(553)-\$ 785; Option	95; Calif rake Sys em(144) 210; Tri Group (. Emision: tem(552)(LX-\$215 S Coat Paim 1)-\$800 (2	LX only)-\$: 5C-\$295; M t-\$225; AM	122)-\$95; 565; Anti- loonroof I/FM Cast SC-\$160 (-Theft Sys Power(13 sette Radi	tem-\$245; B) LX-\$740 o w/cassett	Anti- ; Cellular :e-\$370
1995 Aspire FWD 4 cyl 1.3				naine/99				'
Bore & Stroke 2.79"x3.29"; Ťax H.f Man. Trans. 5-speed; EPA Mileage	² . 12.46; S A	E H.P. 6	3@5000; 1	Forque 74@	3000; 80	.7 cu.in., 1	.3 litter	
4-PS 3-dr H.B. Coupe	T05	90.7		5.7° x 55.6		12.46	8,440	8,750
4-PS 3-dr H.B. Coupe SE	T07	90.7		5.7" x 55.6		12.46	9,415	9,725
4-PS 5-dr H.B. Sedan Auto. Trans. 3-speed; EPA Mileage	T06 Estimate 2		155.9° x 6	i5.7°x 55.6°	1986	12.46	9,055	9,365
4-PS 3-dr H.B. Coupe	T05	90.7	152.8" x 6	5.7" x 55.6	2000	12.46	9,020	9,330
4-PS 3-dr H.B. Coupe SE	T07			5.7" x 55.6		12.46	9,995	10,305
4-PS 5-dr H.B. Sedan Options Aspire: Destination Charge	T06	93.9	155.9" x 6	5.7" x 55.6	2048	12.46	9,635	9,945
Al(64U)-\$355; Air Conditioning(572)	-\$825' Anti-	Lock Bra	3-speed(4 king Syste	4U)-\$58U; (m/557)-\$5/	∠aiπ Emis SS: Rear t	SIONS(422) Mindow De	-\$/U; VVN66 hroster/57/	15 13" N. \$160:
Interior Decor & Convenience Group sette(589)-\$465 SE-\$165 w/CD(582	0(414)-\$265	; Power :	Steering (5)	2H) -\$250; A	WFM St	ereo w/Clo	ck(587)-\$30	00 w/Cas-
1995 Contour FWD 4 cyl 2	.0 liter DC	жс ѕ	EFI Gas	Engine(993)(16	valve)		
Bore & Stroke 3.34"x3.46"; Tax H.F	P. 17.85; SA	EH.P. 12	25@5500;	Torque 130	20 4000;	121cu.in:	2.0 liter	
Man. Trans. 5-speed; EPA Mileage			40000					
5-PS 4-dr Sedan GL P65 5-PS 4-dr Sedan LX P66				9.1" x 54.5 <mark>"</mark> 9.1" x 54.5"		17.85	13,310	13,820
Auto. Trans. 4-speed; EPA Mileage		100.5	103.9 X 0	9.1 X 54.5	2681	17.85	13,995	14,505
5-PS 4-dr Sedan GL P65		106.5"	183.9" x 6	9.1" x 54.5"	2681	17.85	14,155	14,665
5-PS 4-dr Sedan LX P66	66FA	106.5"	183.9" x 6	9.1" x 54.5"	2723	17.85	14,810	15,320
1995 Contour FWD V6 cyl	2.5 liter D	онс я	SEFI Gas	s Engine	(991 1/2	4 valvel		
Bore & Stroke 3.24"x3.13"; Tax H.P	. 25.19; SAI	E H.P. 17	0@6250	Torque 165	0624250	155cu.in.,	2.5 liter	
Man. Trans. 5-speed; EPA Mileage	Estimate 21	1/29				•		
5-PS 4-dr Sedan SE P67 Auto, Trans 4-speed; EPA Mileage	67FA	106.5"	1 83.9" x 69	9.1" x 54.5 "	2855	25.19	15,695	16,205
5-PS 4-dr Sedan SE P67		106.5"	183 9" v 60	9.1" x 54.5 "	2875	25.19	16,510	17.000
Options Contour: Destination Charge	es-\$510; Pre	eferred E	quip Pkas	GL (235A)	-\$850 (23	6A)-51310	124041-52	17,020 530 LX
(23/A)-\$1350 (238A)-\$2245 SE (239	9A) -\$1350: \	V6 cvi 2.5	iter DOH	C SEFI Ga	s Engine	2.10 (1PP	1080 FX.\$1	045 SE.
std; Auto. Irans. 4-speed(44t)-\$815	Calif Emis	sions-\$9	5: Wheels	(14" Cast A	11/6421-\$	265 Leath	er Seation	Surfaces
LX-\$645 SE-\$595; Seat (10-way Po- LX & SE-\$950 (3) (603)-\$345; Anti-Lo	wer)-\$330 (6	-way Po	wer)-\$290.	Option Gr	oups (1)(1	171)-\$220	(2)(462) GL	-\$1030
Power Windows(43R)-\$340; Remote	Kevless Er	nr Svste	o, Moonio m/143)-\$1	60:Soeed	36)-3390; Control(5	25) - 15°2	OF LOCKS (90. Andrend Stock	12)-\$345;
MCD(202) GE-\$435 LX & SE-\$2/0 \	Mcassette(9	13) GL-\$	295 LX &	SE-\$130: A	Vir Conditi	onina (572)	-\$780: Defr	nster
Rear Window(57Q)-\$160				·		3(
1995 MUSTANG RWD 6V c	vl 3.8 lite	r SMPI	FLOHV	Gas Engi	ine/994	\/12 vah	(a)	
Bore & Stroke 3.81 x3.4"; Tax H.P.	38.4: SAE H	I.P. 1456	24000; To	rque 215@:	2500 232	cu.in., 3.8	liter	
Man. Trans. 5-speed 1EPA Mileage	Estimate 20	V30			_			
4-PS 2-dr Coupe P40) 4-PS 2-dr Convertible P44	638J (76BH	101.3"	181.5" x 71	.87x 53.0°	(2952)	38.4	14,530	15,030
Auto. Trans. 4-speed	/ ODN	101.3	181.5" X /1	1.8" x 53.2"	3132	38.4	20,995	21495
4-PS 2-dr Coupe P40	63BJ	101.3"	181 5" x 71	1.8" x 53.0"	2999	38.4	15,345	15,845
4-PS 2-dr Convertible P44	76BH	101.3"	181.5" x 71	1.8" x 53.2"	3179	38.4	21,810	22,310
1995 MUSTANG RWD 8 cyl Bore & Stroke 4.0x3.0; Tax H.P. 51.	5.0 liter	SMPFI 215@42	OHV G	s Engin	۸/994 V	16 vahra		22,010
" TI alis. 5-speed; EPA Mileage	Estimate 17	<i>1</i> 25				0.0 #(0	•	
4-PS 2-dr Coupe GTS P42	63BJ	101.3" 1	181.5" x 71	1.8" x 53.4"	3153	51.2	16,910	17,410
4-PS 2-dr Coupe GT P42 4-PS 2-dr GT Convertible P45	63BJ 76BH	101.3" 1	181.5" x 71	1.8" x 53.4"	3153	51.2	18,105	18,605
Auto, Trans, 4-speed	70 0 N	101.3	1/ X כ.וטו	.8" x 53.3"	3323	51.2	22,795	23,295
4-PS 2-dr Coupe GTS P42	63BJ	101.3" 1	l81.5" x 71	.8" x 53.4"	3222	51.2	17,725	18,225
4-PS 2-dr Coupe GT P42	63BJ	101.3" 1	81.5" x 71	.8" x 53.4"	3222	51.2	18,920	19,420
4-PS 2-dr GT Convertible P45 Options Mustang: Destination Chan	76RH	101 3" 1	21 5" - 71	P" - E2 2"	2200	51.2	20.040	
Options Mustang: Destination Chan \$640 (243A) Coupe-\$2030 Convertib	y es- 3000; A de-\$1675 <i>(</i> 2	ARAN SEA	П S. 4-spe (0d-\$815; Pr	referred E	quip. Pkg	(241A) Co	upe-
, p = + 1 200 00111 01 UL	+ 1023 (2	y 3 04	~ (∠434V)-3 	, 1015; CEIf	i cittissic	m(4 <i>22</i>)- \$ 9	o; Wheels ((15"

			CD	C WORKS	HIEST	venicie F	orm	Pa	ıg
				OR OBJECT (
(01-3	0) — Vehicle	Number	CODES FC	N OBJECT ((57) Fence				
Nonc	ollision				(58) Wall				
		- rollover (exclud	dos and aver		(59) Buildi				
(32	Rollover—	end-over-end	res eug-over	-ena)	(60) Ditch				
(33	Fire or exp	losion			(61) Groun (62) Fire hy				
) Jackknife				(63) Curb	yuranı			
(35) Other intra	unit damage (spe	ecify):		(64) Bridge	1			
(36	Noncollisio	n injuni			(68) Other	fixed objec	t (specify):		
(38	Other nonc	collision (specify)	:		(69) Unkno				
(39)	Noncollisio	n — details unkn	own	~Co	llision with I	Nonfixed OI	oject		
Collisio	on With Fixed	l Object			(70) Passen	iger car, lig	ht truck, var	n, or other	
(41)	Tree (≤ 10	cm in diameter)			venicie	not in-tran	sport		
(42)	Tree (>: 10	cm in diameter)			72) Pedest	n/neavy tru	ck or bus no	ot in-transport	t
(43)	Shrubbery of	or bush			73) Cyclist				
	Embankmer			(74) Other r	nonmotorist	or conveya	nce	
		pole or post (any	diameter)	(75) Vehicle 76) Animal	occupant			
Nonbre	akaway Pole	or Post			77) Train				
(50)	Pole or post	(≤ 10 cm in diar	meter)	(78) Trailer,	disconnect	ed in transp	ort	
(51)	diameter)	(> 10 cm but s	30 cm in	(/9) Object	fell from ve	hicle in-tran-	snort	
(52)		(> 30 cm in dia	motorl	(1	88) Other n	onfixed obj	ect (specify)):	
(53)	Pole or post	(diameter unkno	wn)	(8	39) Unknow	vn nonfixed	object		
(54)	Concrete tra	ffic barrier		(9	98) Other e	vent (specif	v)·		
(56)	Impact atter Other traffic (specify):	nuator barrier (includes	guardrail)		9) Unknow				
	(specify):						,		
		DEFORMA	TION CLASS	SIFICATION I					1
Accident		(1) (2)			(4) Specific	(5) Specific	(6)		
Event Sequence	Object	Direction	Incremental	(3)	Longitudinal		(6) Type of	(7)	1
Number	Contacted	of Force (degrees)	Value of Shift	Deformation Location	or Lateral	Lateral	Damage	Deformation	1
6 1					Location	Location	Distribution	Extent	1
61	0 2			<u>F</u>	R	E	$\overline{\omega}$	01	
									
									
									
									,

		COLLISION	DEFORMA	TION CLAS	SSIFICATIO	N	
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. 0 1	5. <u>0</u> 2	6. <u> </u>	7. <u>F</u>	8. <u>R</u>	9. <u>E</u>	10. <u>W</u>	11.01
Second Hi	ghest Delta "V	•					
12	13	14	15	16	17	18	19
		CRUS	H PROFILE	IN CENTIM	ETERS		
	The crush prof	file for the dan	nage described below. (ALL M	in the CDC(s)	above should I	pe documented TIMETERS.)	d .
HIGHEST (DELTA "V"						
20. 	21. 				C ₅ (2 C ₆ -	2.
058	000	000	001 0	<u> </u>		<u>@</u>	051
Second Hig	ghest Delta "V'	•					
23. L	24. 		<u>C₃</u>	C ₄	C ₅ (2	5. <u>±D</u>
	————				·	+ - -	
(Coded impact (250) (998)	rmed End Width when highest s is an end plane Code to the nea 250 centimeter. No highest sever Unknown	everity impact.) irest centimeter s or more		(650) (999)	Wheelbase Code to the nea centimeter 650 centimeters Unknown inches X 2	or more	257
(For hig (250)	Damage Width hest severity im Code to the nea 250 centimeters Unknown	rest centimeter	644	(185) (999)	Average Track Code to the nearest centime 185 centimeters Unknown inches X 2	ter s or more	152

	FUEL SYSTEM
<u>O</u>	35. Location of Fuel Tank-1 Filler Cap 36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on left side plane (8) Other (specify): (9) Unknown
	37. Type of Fuel Tank-1 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
	39. Location of Fuel Tank-1
0	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered (5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown
	0

			-,		rage
43. Leakage Location of F (0) No fuel tank (1) No fuel leakage Primary Area Of Leaka (2) Tank (3) Filler neck (4) Cap (5) Lines/pump/filter (6) Vent/emission red (8) Other (specify): (9) Unknown 45. Fuel Type-1 46. Fuel Type-2 Single Fuel Type (00) No fuel tank (01) Gasoline (02) Diesel (03) CNG (Compressed (04) LPG (Liquid Petrole known as Propane (05) LNG (Liquid Natura (06) Methanol (M100 of (07) Ethanol (E100 or E) (08) Other (Hydrogen of	Natural Gas) eum Gas) also al Gas) r M85) 85)	10	Two (0) Yes (1) (2)	nis Vehicle Equipped With More Than Fuel Tanks? No (one or two tanks only) - More Than Two Tanks Yes no damage to any tank or filler cap and no fuel system leakage Yes no damage to any tank or filler cap but there is fuel system leakage (specify leakage location): Yes damage to an additional tank or filler cap and there is fuel system leakage (specify the following): Type of tank Tank location Filler cap location Tank damage Location of leakage Type of fuel Unknown if more than two tanks COMMENTS	
Powered Vehicles (10) Lead Acid Battery (11) Nickel-Iron Battery (12) Nickel-Cadmium Battery (13) Sodium Metal Chlo (14) Sodium Sulfur Batt (18) Other (Specify): (98) Other Hybrid (spec	ride Battery ery	-			
		(GV10=	0)	E WAS NOT TOWED *** VEHICLE FORM.	

U.S. Department of Transportation National Highway Traffic Safety Administration	INTERIOR
1. Primary Sampling Unit Number	10
2. Case Number - Stratum	9625
3. Vehicle Number	0
INTEGRITY	
Passenger Compartment Integrity (00) No integrity loss	00
Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window	
(07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof	
(11) Side and rear window (side window a (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify):	
(99) Unknown	
Door, Tailgate or Hatch Opening 5. LF / 6. RF / 7. LR / 8. RR (0) No door/gate/hatch (1) Door/gate/hatch remained closed and of (2) Door/gate/hatch came open during collis (3) Door/gate/hatch jammed shut (8) Other (specify):	perational
(9) Unknown	
Damage/Failure Associated with Door, T Opening in Collision. If IV05-IV09 + 2,	Then code Ø
10. LF 11. RF 12. LR 13. RR	<u> </u>
 (0) No door/gate/hatch or door not opened Door, Tailgate or Hatch Came Open During C (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rai etc.) failure due to damage (6) Latch/striker and hinge failure due to dam (8) Other failure (specify): 	1,

/E	HICLE FORM NATIONAL ACCIDENT SAMPLING SYS	;т
	CRASHWORTHINESS DATA SYS	Ţ
-	Type of Window/Windshield Glazing	
-	15. WS / 16. LF 4 17. RF 4 18. LR 4 19. RR 4	1
-	20. BL <u>4</u> 21. Roof <u>0</u> 22. Other <u>0</u>	
	 (0) No glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint) (6) AS-14 — Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify):)
	(9) Unknown	
	Window Precrash Glazing Status	
	23. WS 1 24. LF 1 25. RF 1 26. LR 27. RR	
1	28. BL <u>/</u> 29. Roof <u>0</u> 30. Other <u>0</u>	
	 (0) No glazing (1) Fixed (2) Closed (3) Partially opened (4) Fully opened (7) Glazing removed prior to accident (9) Unknown 	
	Glazing Damage from Impact Forces	
	31. WS / 32. LF / 33. RF / 34. LR / 35. RR / 36. BL / 37. Roof / 38. Other /	
	 (0) No glazing (1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (9) Unknown if damaged 	
C	Glazing Damage from Occupant Contact	ľ
3	9. WS $\frac{3}{2}$ 40. LF $\frac{1}{2}$ 41. RF $\frac{1}{2}$ 42. LR $\frac{1}{2}$ 43. RR $\frac{1}{2}$	
4	4. BL / 45. Roof / 46. Other /	
	(0) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact	

contact and not holed by occupant contact

occupant contact

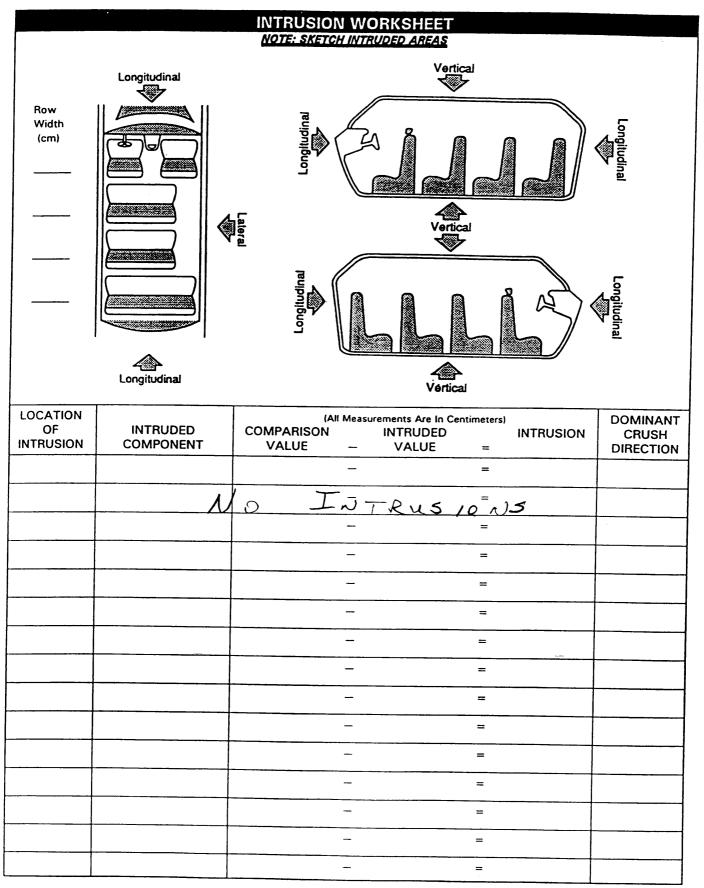
(7) Glazing removed prior to accident (8) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant

(6) Glazing out-of-place by occupant contact and holed by

(9) Unknown

STEER	RING RIM/SPOKE DEF	ORMATIO	V	
	(All Measurements Are in Centime	eters)		
COMPARISON VALUE -	DAMAGE VALUE	=	DEFORMATION	
-		=		
No -	DEFORMA	T-041		
-	<u> </u>	=		·
		=		
_				

		OCCUPA	ANT A	REA INTRUSION	Page
Note: If no intru	sions, leave variab			INTRUDING COMPONENT	
Location Intrusion		Magnitude	Dominant Crush Direction	Interior Components (01) Steering assembly (02) Instrument panel left	
1st 47	48	49 50)	(03) Instrument panel center (04) Instrument panel right (05) Toe pan (06) A (A1/A2)-pillar	
2nd 51	52	53 54	·	(07) B-pillar (08) C-pillar (09) D-pillar (10) Side panel - forward of the A1/A2-pillar	
3rd 55	56	57 58	·	(11) Door panel (side) 412) Side panel - rear of the B-pillar (13) Roof (or convertible top) (14) Roof side rail	
4th 59	60	61 62.		(15) Windshield(16) Windshield header(17) Window frame(18) Floor pan (includes sill)	
5th 63	64	65 66.		(19) Backlight header(20) Front seat back(21) Second seat back(22) Third seat back	
6th 67	68	69 70.		 (23) Fourth seat back (24) Fifth seat back (25) Seat cushion (26) Back door/panel (e.g., tailgate) 	
7th 71	72	73 74		(27) Other interior component (specify):	-
8th 75	76	77 78		Exterior Components (30) Hood (31) Outside surface of this vehicle (specify):	
9th 79	80	81 82		 (32) Other exterior object in the environment (specify): (33) Unknown exterior object (97) Catastrophic 	
10th 83	84	85 86		(98) Intrusion of unlisted component(s) (specify): (99) Unknown	
LOCATION OF INT	RUSION			MAGNITUDE OF INTRUGION	
Front Seat (11) Left (12) Middle (13) Right Second Seat (21) Left (22) Middle (23) Right	(98) Oth	t ddle ht tastrophic her enclosed a (specify)		MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters (2) ≥ 8 centimeters but < 15 centimeters (3) ≥ 15 centimeters but < 30 centimeters (4) ≥ 30 centimeters but < 46 centimeters (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters (7) Catastrophic (9) Unknown	
Third Seat (31) Left (32) Middle (33) Right	(33) 011	ALIOWII	04	OOMINANT CRUSH DIRECTION (1) Vertical (2) Longitudinal (3) Lateral (7) Catastrophic (9) Unknown	

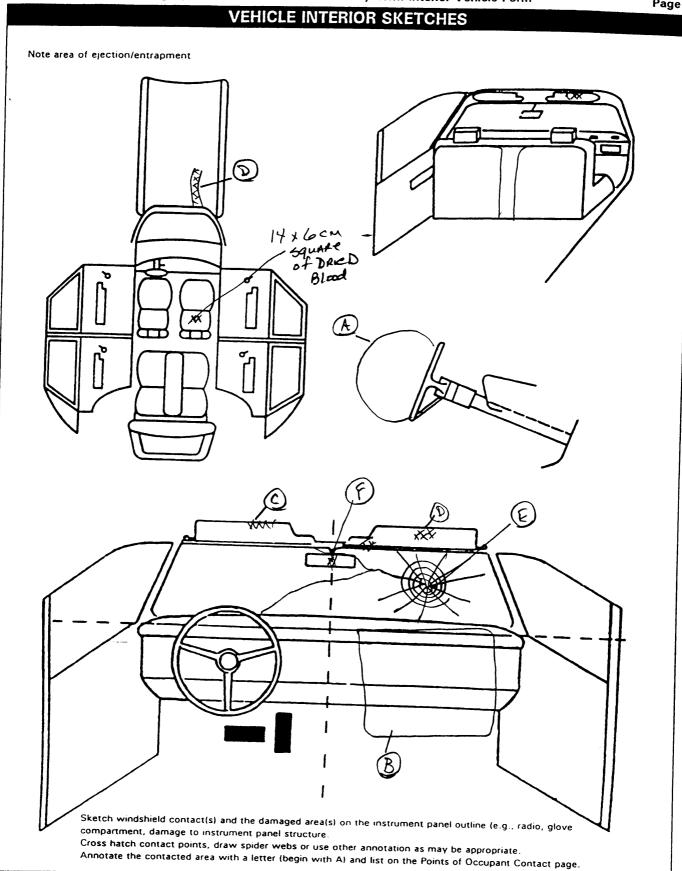


STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type	92. Odometer Reading 0 7 9,000
(1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):	kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown 49,000 miles x 1,6093 = 78,858 kilometers
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown	Source: ODOMETER 93. Instrument Panel Damage from Occupant Contact? (0) No - (1) Yes (9) Unknown
89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	94. Type of Knee Bolster Covering (0) No knee bolster (1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown 95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown
90. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown 97. Adaptive (Assistive) Driving Equipment
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	(0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify): (9) Unknown

FIRST SEAT FRONTAL AIR BAGS Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. Driver Passenger A-Type of air bag? B-Flaps open at tear points? C-Flaps damaged? D-Air bag damaged? E-Source of air bag damage F-Air bag tethered? G-Air bag have vent ports? H-Other occupant contact air bag? I-Occupant wearing eyewear? A-Type of Air Bag D-Was There Damage To The Air Bag? F-Was The Air Bag Tethered? (0) Not equipped/not available (00) Not equipped/not available (0) Not equipped/not available (1) Original manufacturer installed (01) Not damaged (1) No system (2) Yes (specify number of tether Yes - Air Bag Damage (2) Retrofitted air bag (3) Replacement air bag (02) Ruptured -(8) Unknown type of air bag (03) Cut (3) Deployed, unknown if tethered (9) Unknown (04) Torn (7) Not deployed (05) Holed (8) Unknown if deployed B-Did Air Bag Module Cover Flap(s) Open At (06) Burned (9) Unknown **Designated Tear Points?** (07) Abraded (0) Not equipped/not available (88) Other damage (specify): G-Did The Air Bag Have Vent Ports? (1) No (0) Not equipped/not available (95) Damaged, details unknown (2) Yes (1) No (3) Deployed, unknown if flap(s) opened (96) Deployed, unknown if damaged (2) Yes (specify number of vent ports) at designated tear points (97) Not deployed 2 Driver (7) Not deployed (98) Unknown if deployed Deployed, unknown if vent ports (8) Unknown if deployed (99) Unknown present (9) Unknown (7) Not deployed E-Source of Air Bag Damage Unknown if deployed C-Were Air Bag Module Cover Flap(s) (00) Not equipped/not available (9) Unknown Damaged? (01) Not damaged (0) Not equipped/not available (02) Object worn by occupant, (specify): H-Was the Air Bag in this Occupant's (1) No Position Contacted by Another Occupant? (2) Yes (specify): (03) Object carried by occupant, (specify): (0) Not equipped/not available (1) No (3) Deployed, unknown if air bag module (04) Adaptive/assistive controls, (specify): (2) Yes (specify): cover flap(s) damaged (7) Not deployed (05) Fire in vehicle Deployed, unknown if other (8) Unknown if deployed (06) Thermal burns occupant contact to air bag (9) Unknown (07) Rescue or emergency efforts Not deployed (88) Other damage source (specify): Unknown if deployed (9) Unknown (95) Damaged, unknown source (96) Deployed, unknown if damaged I-Was This Occupant Wearing Eye-wear? (97) Not deployed (0) Not equipped/not available (98) Unknown if deployed (1) No. (99) Unknown (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn Not deployed

Unknown if deployed

Unknown



	aonai Aoo	dent Camping			OLIDANT CONTACT	Form	Page
		1	POIN	1	CUPANT CONTACT		
		Interior	Occupant	Body Region			Confidence
	_	Component	No. If	If			Level of Contact
	Contact	Contacted	Known	Known	Supporting Physica	l Evidence	Point
	Α	170	1		oil smears to	SIDES	1
_	В	180	2		OIL & SKIN		1
	С	<i>∞3</i>			White tran	ster	3
	D	003/205			white transfe		3
t[E	601	2		SOIDER WEB/ESK	7:55 71 6	7
	F	002			1, 120, 10	1000	11/1
	G				TITE BY A	IRbag	N/A
	Н						
-	1				· .		
-							
<u> </u>	J						
	К						
	L						
	М						
	N						
(005) (006) (007) (008) (010) (011) (012) (013) (014) (015)	6) Steering will of codes OX of codes OX OX Steering column, translever, other lever, other adio ox Add on equitapedeck, and Left instrumbelow ox Right instrument pelow ox OX	neel hub/spoke neel (combination)4 and 005) ssmission selector attachment phone or CB ipment(e.g., ir conditioner) itent panel and ument panel and artment door including one or following: front 1/1/2)-pillar, nanel, mirror, or embly (driver including one or following: front 1/1/2)-pillar, anel, or mirror ide only)	armrests (052) Left side armrest (053) Left A (A (054) Left B-pill (055) Other left (055) Left side (057) Left side (158) Right R	hardware or hardware or hardware or 1/A2)-pillar ar pillar (specify): window glass window frame window sill window glass one or more of the frame, window (A2)-pillar, B-pillar, e rail. side object 1/A2)-pillar ar pillar (specify): window glass window glass window glass window glass window glass window glass window glass window glass ne or more of the frame, window A2)-pillar, e rail.	(151) Seat, back support (152) Belt restraint webbing/buckle (153) Belt restraint B-pillar or door frame attachment point (154) Other restraint system component (specify): (155) Head restraint system (160) Other occupants (specify): (161) Interior loose objects (162) Child safety seat (specify): (163) Other interior object (specify): AIR BAG (170) Air bag-driver side (175) Air bag compartment cover-driver side (180) Air bag-passenger side (181) Air bag-passenger side (180) Other air bag (specify) (195) Other air bag (specify) ROOF (201) Front header (202) Roar header (203) Roof left side rail (204) Roof right side rail (205) Floor or console mounted transmission lever, including	door, etc. (303) Other rear object ADAPTIVE (ASSISTIVE EQUIPMENT (401) Hand controls for braking/accelerate to the control of the control	DRIVING footon devices A steering tached to ering wheel meter) orontrols was eat belts, cated y):
*	601	oil smu	DGE for	nd .	console (253) Parking brake handle (254) Foot controls including parking brake	CONFIDENCE LEVEL OF (POINT (1) Certain (2)	CONTACT
	0	n winds	shield J	ust sp	nder hab	(2) Probable (3) Possible (9) Unknown	

Police found NAIR 2 SKIN but Removed for EVIDENCE 86A

AUTOMATIC RESTRAINTS

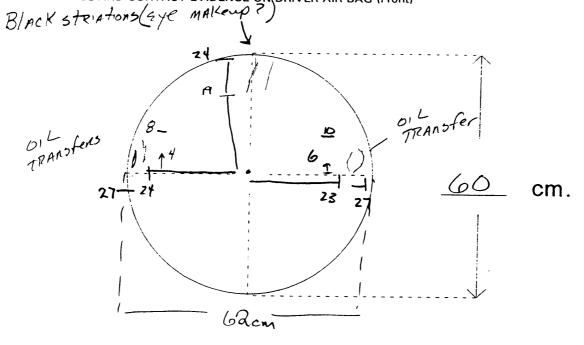
int

NOT	ES: Encode the data for each a below. Restraint systems	pplicable front seat position. The should be assessed during the v	he attribute for the variables m	ay be found
	Assessment Form.	AIR BAGS	emere improvion their coded of	Title Occupa
		Frontal Air BagsLeft Front	Frontal Air Bags-Right Front	OtherAir Ba
F	Availability/Function	/		
R	Deployment	1	/	
S T	Failure	1		3
(0) (1) <i>Nor</i> (2)	g System Availability/Function Not equipped/not available Air bag a-functional Air bag disconnected (specify): Air bag not reinstalled Unknown	Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as of impact) (2) Deployed inadvertently just praccident (3) Deployed, accident sequence undetermined (4) Deployed as a result of a none event during accident sequence (e.g., fire, explosion, electrical (5) Unknown if deployed (9) Unknown	(2) Yes (specify): (9) Unknown collision	pant Position)
		AUTOMATIC BELTS		
		Left	Right	
	A-Availability/Function	0	0	
F	B-Use	0	0	
R S	С-Туре	0	0	
T	D-Proper Use	0	0	
	E-Failure Modes	\triangleright	0	
Availab (0) (1) (2) (3) (4) (4) (4) (4) (7)	matic (Passive) Belt System ility/Function Not equipped/not available 2 point automatic belts 3 point automatic belts Automatic belts - type unknown functional Automatic belts destroyed or endered inoperative Unknown matic (Passive) Belt System Use Not equipped/not available/destroyed or rendered inoperative Automatic belt in use Automatic belt in use (manually disconnected, motorized track inoperative) Automatic belt use unknown Unknown matic (Passive) Belt System Type	D-Proper Use of Automatic (Passive) B System (0) Not equipped/not available/not (1) Automatic belt used properly (2) Automatic belt used properly w child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn u arm —— (4) Automatic shoulder belt worn b back (5) Automatic belt worn around mo than one person (6) Lap portion of automatic belt w on abdomen (7) Automatic lap and shoulder belt automatic shoulder belt used improperly with child safety seat (specify).	During Accident (0) Not equipped/not ava (1) No automatic belt fail (2) Torn webbing (stretch included) (3) Broken buckle or latch (4) Upper anchorage sepander (5) Other anchorage sepander (6) Broken retractor (7) Combination of above ore (8) Other automatic belt form (9) Unknown	ilable/not in use ure(s) ned webbing not inplate arated (specify):
(0) h (1) h (2) h	dot equipped/not available don-motorized system dotorized system Inknown	system (specify): (9) Unknown		

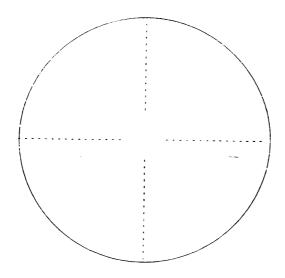
		Ŋ	JANUAL REST	RAINTS			
NOT	ES: Encode the applicable data Restraint systems should be	for each	seat position in the w	abiala The et	tribute 1	for the variab	le may be found belo
	If a child safety seat is pres	ent, enco	de the data on the bad	ck of this page	- 11	О О О О О О О О	ant Assessment Form.
l	If the vehicle has automatic	restraints	available, encode the	annonciate c	iata on r	222 F	
			Left		enter	Dage 6.	<u> </u>
	A-Availability		4	 			Right
F	B-Evidence of usage		$-\frac{7}{2}$	 	<u>ر</u>		4,
1	C-Used in this crash?		04	 			64
R	D-Proper Use			 			00
T	E-Failure Modes			 	· · ·		0
	F-Anchorage Adjustment		—— 	 			0
	A-Availability			 			
_	B-Evidence of usage			ļ			4,
WECOZD	C-Used in this crash?		04				04.
							04
	D-Proper Use		0				
	E-Failure Modes		0				
	F-Anchorage Adjustment						
	A-Availability	_		<u> </u>			
О Т Н	B-Evidence of usage						
	C-Used in this crash?						
E	D-Proper Use						
R	E-Failure Modes						
	F-Anchorage Adjustment						
(0) (1) (2) (3) (4) (5) (6) (7) (8)	wal (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify): Unknown nual (Active) Belt System Use	(0) (1) (2)	Use of Manual (Active) None used or not avail Belt used properly Belt used properly wit seat Used Improperly Shoulder belt worn und Shoulder belt worn belt seat Belt worn around more person Lap belt worn on abdo Lap belt or lap and shoused improperly with of seat (specify): Other improper use of	der arm hind back or than one men bulder belt child safety	(2) (3) (4) (5) (9)	No shoulder I No upper and shoulder belt Adjustable sh Anchorage In full up posi In mid positio In full down p Position unkn Unknown if p	chorage adjustment for soulder Belt Upper sition n
(00)	None used, not available, or belt		system (specify):				
(01)	removed/destroyed Inoperable (specify):	(9)	Unknown				
(02)	Shoulder belt	E-Manual	(Active) Belt Failure Mod	des Durina			ĺ
(03) (04)	Lap belt	Accident					
(05)	Lap and shoulder belt Belt used - type unknown	(O) (1)	No manual belt used or	not available			
(08)	Other belt used (specify):	(2)	No manual belt failure(s Torn webbing (stretche not included)	d webbing			
(12)	Shoulder belt used with child safety seat	(3)	Broken buckle or latche	late			
(13)	Lap belt used with child safety seat	(4) (5)	Upper anchorage separa Other anchorage separa	ated			
(14)	Lap and shoulder belt used with		(specify):				
(15)	child safety seat Belt used with child safety seat - type unknown	(6) (7)	Broken retractor Combination of above (specify):			
(18)	Other belt used with child safety seat (specify):	(8)	Other manual belt failur	e (specify):			
(99)	Unknown if belt used	(9)	Unknown				

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

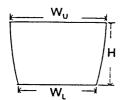


DRIVER AIR BAG SKETCHES (Cont'd)

3. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

width (W_U) _____ width (W_L) ____

height (H)



4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

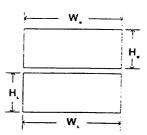
a. Upper Flap

b. Lower Flap

width $(W_0) = 15$

width (W_l) ///

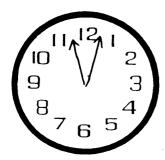
height (H_l) 5



- SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE
- 6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS

1130 2 1230



Both vent DIAM 20m's

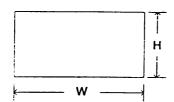
PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES 1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front) SAME SMEARS DIL SMEARS <u>58</u> cm. Fluids (Bloodyish) TOP SEAM NEAR deployment doors 2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back) TOP 016 SMEAR Unes

PASSENGER AIR BAG SKETCHES (Cont'd)

3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE)

width (W) _____

height (H) _____



4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)

a. Upper Flap

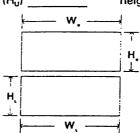
b. Lower Flap

width (W_u)

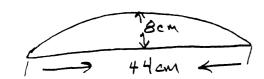
width (W_L) _____

height (H_u)

height (H_L)



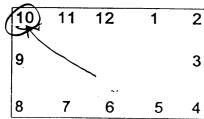
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE





6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS

7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS



1 vert fort 5 cm DIAM 5 cm DIAM 6 port gen 6000 to Part gen 60000

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES	
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)	
•	
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)	
2. Sketch Damage and Contact Evidence on Other Air Bag (Back)	
~ ~	

"OTHER" AIR BAG SKETCHES (Cont'd)
3. SKETCH AIR BAG MODULE FLAP AND SIZE OR OPENING FOR AIRBAG
,
4. SKETCH AIR BAG VENT PORTS

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	T			
-		Left	Center	Right
	A-Head Restraint Type/Damage	3		3
F I R S T	B-Seat Type	<i>O2</i>		02
	C-Seat Orientation	1		/
	D-Seat Track Position	5-6		6
	E-Seat Back Incline Pre/Post Impact	14		14
	F-Seat Performance			1
	A-Head Restraint Type/Damage		-	1
c	B-Seat Type	07		07
S E	C-Seat Orientation	1		1
C O	D-Seat Track Position			1
N D	E-Seat Back Incline Pre/Post Impact	01		01
	F-Seat Performance			
	A-Head Restraint Type/Damage			
Т	B-Seat Type			
Ĥ	C-Seat Orientation			
R	D-Seat Track Position			
D	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			
	A-Head Restraint Type/Damage			
О	B-Seat Type			
T H	C-Seat Orientation			
E R	D-Seat Track Position			
••	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

DRIVER SEAT TRACK- From Base of backseat to base of DRIVER seat 25cm PASS. seattrack- from Base of backseat to base of pass seat 22cm

	CHILD SAFE	TY SEAT	FIE	LD ASSI	ESSMENT		
W th	hen a child safety seat is present enter the occupant's number using the codes list	e occupant's n	um	ber in the f	irst row and co	omplete the co child safety se	olumn below at present.
0	ccupant Number						
1.	. Type of Child Safety Seat	No	1				
2.	. Child Safety Seat Orientation						
3.	. Child Safety Seat Harness Usage			:			
4.	Child Safety Seat Shield Usage					PECE.	
5.	Child Safety Seat Tether Usage						
6.	Child Safety Seat Make/Model	Specif	у В	elow for Ea	ach Child Safe	ty Seat	
	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify) (8) Unknown child safety seat type (9) Unknown if child safety seat used Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing	v): -	4.	Child Safe Note: Opt (00) No c Not Design (01) After adde (02) After (03) Child harne (09) Unkn	child safety se ned with Harn r market harne d, not used r market harne I safety seat u ess/shield/teth nown if harnes	d Usage er Usage re Used for Va at ness/Shield/Teth ess/shield/teth used, but no a	ther er er used fter market
	(01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):			Designed V (11) Harno (12) Harno (19) Unkn Unknown I (21) Harno (22) Harno	ess/shield/tethess/shield/tetheown if harnes If Designed Wess/shield/tethess/shield/teth	ner used ss/shield/tether /ith Harness/SI ner not used	hield/Tether
	(19) Unknown orientation					s/shield/tether afety seat use	
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	6	6.	Child Safet	y Seat Make/		
	(29) Unknown orientation (99) Unknown if child safety seat used						

HEAD RESTRAINTS/SEAT EVALUATION

A-Head Restraint Type/Damage by E-Seat Back Incline Prior and Post Occupant at This Occupant Position Impact (0) No head restraints (00) Occupant not seated or no seat (1) Integral — no damage(2) Integral — damaged during (01) Not adjustable Upright prior to impact accident (11) Moved to completely rearward (3) Adjustable — no damage(4) Adjustable — damaged during 14 13 position 15 Moved to rearward midrange accident 16 12 (5) Add-on — no damage(6) Add-on — damaged during position (13)Moved to slightly rearward position accident Retained pre-impact position Other (15)Moved to slightly forward Specify): position (9) Unknown Moved to forward midrange (16)position Moved to completely forward position **B-Seat Type (this Occupant** Position) Slightly reclined prior to impact (00) Occupant not seated or no 24 (21) Moved to completely rearward 25 23 seat 26 (01) Bucket position 22 (22)Moved to rearward midrange Bucket with folding back (02) position (03)Bench 21 (23)Retained pre-impact postion (04) Bench with separate back (24)Moved to upright position cushions (25)Moved to slightly forward (05) Bench with folding back(s) position (06) Split bench with separate back Moved to forward midrange (26)cushions (07) Split bench with folding position (27)Moved to completely forward back(s) position (08) Pedestal (i.e., column supported) Completely reclined prior to impact (09) Box mounted seat (i.e., van (31) Retained pre-impact position type) 34 33 (32)(10) Other seat type (specify): Moved to rearward midrange 35 position 36 32 Moved to slightly rearward (33)(99) Unknown position (34)Moved to upright position Moved to slightly forward (35)position C-Seat Orientation (this Occupant (36)Moved to forward midrange Position) position (0) Occupant not seated or no (37)Moved to completely forward seat position Forward facing seat (2)Rear facing seat Coding diagrams for Seat Back Incline Side facing seat (inward) (99) Unknown (3) Position Prior and Post Impact (4)Side facing seat (outward) (8) Other (specify): Unknown F-Seat Performance (this Occupant (9) Position) (0) Occupant:not seated or no seat No seat performance failure(s) (1)(2)Seat adjusters failed D-Seat Track Adjusted Position Prior (3) Seat back folding locks or "seat To Impact back" failed (specify): (0) Occupant not seated or no seat (4)Seat tracks/anchors failed Non-adjustable seat track (1) (5)Deformed by impact of occupant (6) Adjustable Seat Track Deformed by passenger compartment intrusion Seat at forward most track (specify): position (7) Combination of above (specify): Seat between forward most and middle track positions (8) Other (specify): Seat at middle track position Seat between middle and rear (5) (9) Unknown most track positions (6) Seat at rear most track position (9) Unknown

EJECTION No [X] Yes (Describe indications of ejection ar] nd body parts i	nvolved in p	artial ejectio	on(s):		
		7		T	r. d	
Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status		·				
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(9) Unknote (1) Door/(2) Nonfix (3) Fixed	dium hatch/tailgat ked roof stru	e cture	(8) Oti (9) Un Medium to Impac (1) Op (2) Clo	t) en sed egral structi	(specify):
Describe entrapment mechanism:	•					

NASS CDS VEHICLE FORMS: VEHICLE #2

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Administration	CRASHWORTHINESS DATA SYST
1. Primary Sampling Unit Number 2. Case Number - Stratum $\frac{9}{6} \frac{6}{2} \frac{5}{5}$	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown
3. Vehicle Number	
VEHICLE IDENTIFICATION	13. Police Reported Alcohol Presence For Driver
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	(0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present
5. Vehicle Make (specify):	(9) Unknown
Applicable code's are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given
6. Vehicle Model (specify):	(97) AC test performed, results unknown (98) No driver present
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	(99) Unknown Source: INV. Officer
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present
8. Vehicle Identification Number	(7) Not reported (8) No driver present
LEMDU32X7MU	(9) Unknown
1 2 3 4 6 6 7 8 9 10 11 12 13 14 15 16 17 Left justify; Slash zeros and letter Z (Ø andZ) No VIN—Code all zeros Unknown—Code all nines	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use	(3) Specimen test given, results unknown or not obtained
(1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	(8) No driver present (9) Unknown if specimen test given
(4) Military (5) Police	17. Driver's Zip Code
(6) Ambulance (7) Fire truck or car	(00001) Driver not a resident of U.S. or territories
(8) Other (specify):(9) Unknown	Code actual 5-digit zip code
OFFICIAL RECORDS	(99998) No driver present (99999) Unknown
10. Police Reported Vehicle Disposition	18. Driver's Race/Ethnic Origin
(0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	(1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic)
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above	(4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):
(999) Unknown mph X 1.6093 = kmph	(8) No driver present (9) Unknown

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,536 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,536 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager (83 and before), E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (£ 4,536 kgs GVWR)
- (23) Van based motorhome (< 4,536 kgs GVWR)
- (24) Van based school bus (< 4,536 kgs GVWR)
- (25) Van based other bus (s 4,536 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab,

≤ 4,536 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)
- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,536 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,536 kgs GVWR)

- (60) Step van (> 4,536 kgs GVWR)
- (61) Single unit straight truck (4,536 kgs < GVWR ≤ 8,845 kgs)</p>
- (62) Single unit straight truck (8,845 kgs < GVWR ≤ 11,793 kgs)
- (63) Single unit straight truck (> 11,793 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

PRECRASH ENVIRONMENTAL DA	7.4		
THEOTIAGIT ENVINOISIVIEW AL DE	AIA	25. Roadway Surface Condition	1
10 Polosia Vallandi I	- 1		
19. Relation To Interchange Or Junction		(1) Dry	
(0) Non-interchange area and non-junctio	n	(2) Wet	
(1) Interchange area related		(3) Snow or slush	
·		(4) Ice	
Non-Interchange junctions		(5) Sand, dirt, or oil	
(2) Intersection related		(8) Other (specify):	
		(9) Unknown	
(3) Driveway, alley access related		(9) Onknown	
(4) Other junction (specify)			
		26. Light Conditions	/
(5) Unknown type of junction			
•		(1) Daylight	
(9) Unknown		(2) Dark	
		(3) Dark, but lighted	
•		(4) Dawn	
00 T (II	~	(5) Dusk	
20. Trafficway Flow	\mathcal{O}	(9) Unknown	
(0) Not physically divided (two way traffic)	(O) CHAHOWH	
(1) Divided trafficway-median strip without	•		
positive barrier	•		
(2) Divided trafficway-median strip with po	!a!.	27. Atmospheric Conditions	0
hasis	sitive	(0) No adverse atmospheric-related driving	
barrier		conditions	
(3) One way traffic		(1) Rain	
(9) Unknown		(2) Sleet/hail	
		• • • • • • • • • • • • • • • • • • • •	
	1	(3) Snow	
21. Number Of Travel Lanes	3	(4) Fog	
(1) One	-	(5) Rain and fog	
(2) Two		(6) Sleet and fog	1
(3) Three		(7) Other (e.g., smog, smoke, blowing sand	. 1
(4) Four		dust, etc.) (specify):	or
(5) Five		dust, etc./ (specify).	- 1
		(0) 11-1	ŀ
(6) Six		(9) Unknown	1
(7) Seven or more			, 1
(9) Unknown		28. Traffic Control Device	/ 1
		(0) No traffic control(s)	<u> </u>
	1	(1) Traffic control signal (not RR crossing)	
22. Roadway Alignment	/	a same alguer that the clossing	
(1) Straight		Regulatory	
(2) Curve right			1
(3) Curve left		(2) Stop sign	i
(9) Unknown		(3) Yield sign	
(5) 5		(4) School zone sign	j
a /	,	(5) Other regulatory sign (specify):	1
3. Roadway Profile - 4 %	/ /		
(1) Level		(6) Warning sign (not RR crossing)	
(2) Uphill grade (>2%)		(7) Unknown sign	1
	i	(R) Missellenesus/set-set set set set set	- 1
(3) Hill crest	İ	(8) Miscellaneous/other controls including RR	
(4) Downhill grade (>2%)		controls (specify):	
(5) Sag			
(9) Unknown	- 1	(9) Unknown	ŀ
<u>.</u> 1	Į		
	0		İ
4. Roadway Surface Type	d	29. Traffic Control Device Functioning	21
(1) Concrete	<u></u>	(0) No traffic control device	_
(2) Bituminous (asphalt)	1	(1) Traffic control device	Í
(3) Brick or block	1	(1) Traffic control device not functioning	
(4) Slag, gravel, or stone		(specify):	
(5) Dirt	1		1
		(2) Traffic control device functioning properly	
(8) Other (specify):	- 1	(9) Unknown	1
(9) Unknown	i		- 1
	İ		1

PRECRASH DRIVER RELATED DATA	THE LEWIS ETPATELLING
30. Driver's Distraction/Inattention To Driving	THIS VEHICLE TRAVELLING (10) Over the lane line on left side of travel lane
(Prior To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane
(00) No driver present	(12) Off the edge of the road on the left side
(01) Attentive or not distracted	(13) Off the edge of the road on the right side
(02) Looked but did not see	(14) End departure
Distractions	(15) Turning left at intersection
(03) By other occupant(s), (specify):	(16) Turning right at intersection
(04) By maying chiest in yehiole (and sife):	(17) Crossing over (passing through) intersection
(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
(05) While talking or listening to cellular phone (specify	(19) Chikhowh daver direction
location and type of phone):	OTHER MOTOR VEHICLE IN LANE
	(50) Other vehicle stopped
(06) While dialing cellular phone (specify location and	(51) Traveling in same direction with lower steady
type of phone):	speed
(07) While adjusting climate controls	(52) Traveling in same direction while decelerating
(08) While adjusting radio, cassette, CD (specify):	(53) Traveling in same direction with higher speed
(ee) thine dejacting feets, easietie, es (speetly).	(54) Traveling in opposite direction
(09) While using other device/controls integral to vehicle	(55) In crossover (56) Backing
(specify):	(59) Unknown travel direction of other motor vehicle in
(10) While using or reaching for device/object brought	lane
into vehicle (specify):(11) Sleepy or fell asleep	
(12) Distracted by outside person, object, or event	OTHER MOTOR VEHICLE ENCROACHING INTO
(specify):	LANE
(13) Eating or drinking	(60) From adjacent lane (same direction)—over left lane
(14) Smoking related	line
(97) Distracted/inattentive, details unknown	(61) From adjacent lane (same direction)—over right
(98) Other, distraction (specify):	lane line
(99) Unknown	(62) From opposite direction—over left lane line (63) From opposite direction—over right lane line
31. Pre-Event Movement (Prior to	(64) From parking lane
Recognition of Critical Event)	(65) From crossing street, turning into same direction
(00) No driver present	(66) From crossing street, across path
(01) Going straight	(67) From crossing street, turning into opposite direction
(02) Decelerating in traffic lane	(68) From crossing street, intended path not known
(03) Accelerating in traffic lane	(70) From driveway, turning into same direction
(04) Starting in traffic lane (05) Stopped in traffic lane	(71) From driveway, across path
(06) Passing or overtaking another vehicle	(72) From driveway, turning into opposite direction
(07) Disabled or parked in travel lane	(73) From driveway, intended path not known (74) From entrance to limited access highway
(08) Leaving a parking position	(78) Encroachment by other vehicle—details unknown
(09) Entering a parking position	(10) The common by outer vertice details distribution
(10) Turning right	PEDESTRIAN, PEDALCYCLIST, OR OTHER
(11) Turning left (12) Making a U-turn	NONMOTORIST
(13) Backing up (other than for parking position)	(80) Pedestrian in roadway
(14) Negotiating a curve	(81) Pedestrian approaching roadway
(15) Changing lanes	(82) Pedestrian—unknown location
(16) Merging	(83) Pedalcyclist or other nonmotorist in roadway (specify):
(17) Successful avoidance maneuver to a previous critical event	(84) Pedalcyclist or other nonmotorist approaching
(97) Other (specify):	roadway, (specify):
(99) Unknown	(85) Pedalcyclist or other nonmotorist—unknown
32. Critical Precrash Event 5 2	location (specify):
THIS VEHICLE LOSS OF CONTROL DUE TO:	00 (507.00 44)
(01) Blow out or flat tire	OBJECT OR ANIMAL
(02) Stalled engine	(87) Animal in roadway (88) Animal approaching roadway
(03) Disabling vehicle failure (e.g., wheel fell off)	(89) Animal—unknown location
(specify):	(90) Object in roadway
(04) Non-disabling vehicle problem (e.g., hood flew up)	(91) Object approaching roadway
(specify):(05) Poor road conditions (puddle, pot hole, ice, etc.)	(92) Object—unknown location
(specify):	(98) Other critical precrash event (specify):
(06) Traveling too fast for conditions	
(08) Other cause of control loss (specify):	(99) Unknown
(09) Unknown cause of control loss	
, ,	

Cate	Configur-	ACCIDENT TYPES (Includes Intent)		
	A Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION ROAD TRACTION LOSS WITH VEH., PED., ANIM.	04 05 SPECIFICS SPECIFIC OTHER UNKNOW	_
Single Driver	B Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION ROAD TRACTION LOSS WITH VEH., PED., ANIM.	09 10 SPECIFICS SPECIFICS OTHER UNKNOW	
_	C Forward Impact		15 16 SPECIFICS SPECIFICS OTHER UNKNOW	
(IND	D - Rear-End	STOPPED SLOWER DECEL. 31	(EACH • 32) (EACH • SPECIFICS SPECIFICS OTHER UNKNOW	;
II. Same Trafficway Same Direction	E Forward Impact	34 () 36 () 38 () 40 ()	12) (EACH • 42)(EACH	• 43)
	F Sideswipe Angle	45 45 (EACH · 48) SPECIFICS OTHER	(EACH - 49) SPECIFICS UNKNOW	N
(L)	Ci Head-On	50 51 (EACH • 52) (EACH • 53) SPECIFICS OTHER SPECIFICS UNKNOWN		:
Same Traffieway Opposite Direction	H Forward Impact	54 55 56 57 58 59 60 CT ST ST ST ST ST ST ST ST ST ST ST ST ST	61	cs
Ξ	l Sideswipe Angle	64 (EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER		
Change Trafficway Vehicle Turning	J. Turn Across Path	69 71 70 73 77 INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS	(EACH • 74) (EACH • SPECIFICS SPECIFICS OTHER UNKNOWN	
1V Change Trafficw Vehicle Turning	K Turn Into Path	77 79 81 82 TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS	(EACH • 84) (EACH • SPECIFICS SPECIFICS OTHER UNKNOWN	85)
ing Paths (Vehicle Dainage)	L Straight Paths	87 (EACH + 90) 88 89 SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN	
VI Miscel Ianeous	M Backing Eic	92 83 OTHER VEH OR OBJECT BACKING VEH 98 Öther Accident T 99 Unknown Accide 00 No Impact		

OCCUPANT DELATED	Page
OCCUPANT RELATED 37. Driver Presence in Vehicle	44. Vehicle Cargo Weight Code weight to nearest 10 kilograms.
(0) Driver not present (1) Driver present (9) Unknown	(000) Less than 5 kilograms (454) 4,536 kilograms or more
38. Number of Occupants This Vehicle	(999) Unknown
(00-96) Code actual number of occupants for this vehicle	Source: Interviewee ROLLOVER DATA
(97) 97 or more (99) Unknown	45. Rollover
39. Number of Occupant Forms Submitted O	(00) No rollover (no overturning) Rollover (primarily about the longitudinal axis)
AIR BAG RELATED 40. Is this an AOPS Vehicle?	(01-16) Code the number of quarter turns (17) Rollover, 17 or more quarter turns
(0) No (includes unknown) (1) Yes - researcher determined	(specify): (98) Rollover-end-over-end (i.e., primarily about the lateral axis)
(2) VIN determined air bag system (3) VIN determined automatic (passive) belts	(99) Rollover (overturn), details unknown
(4) VIN determined air bag and automatic (passive) belts	46. Rollover Initiation Type (00) No rollover
41. Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available	(01) Trip-over (02) Flip-over (03) Turn-over
(1) No air bags deployed Single Air Bag Vehicle	(04) Climb-over (05) Fall-over
(2) Driver air bag deployed (3) Driver air bag, unknown if deployed	(06) Bounce-over (07) Collision with another vehicle (08) Other rollover initiation type specify):
Multiple Air Bag Vehicle (4) Driver side only deployed (5) Passenger side only deployed (6) Driver and passenger side deployed (7) Driver and passenger side unknown if	(98) Rolloverend-over-end (99) Unknown rollover initiation type
(8) Air bag(s) deployed, details unknown (9) Unknown	47. Location of Rollover Initiation (0) No rollover (1) On roadway
42. Air Bag(s) Deployment, Other Than First	(2) On shoulder – paved (3) On shoulder – unpaved
Seat Frontal (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of	(4) On roadside or divided trafficway median (8) Rolloverend-over-end (9) Unknown
impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)	49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover
(5) Unknown if deployed(7) Nondeployed(9) Unknown	(1) Wheels/tires (2) Side plane
Specify type of "other" air bag present:	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify):
	(6) Non-contact rollover forces (specify):
VEHICLE WEIGHT ITEMS	(8) Rolloverend-over-end (9) Unknown
43. Vehicle Curb Weight	50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal
10 kilograms (045) Less than 454 kilograms (612) 6,124 kilograms or more	axis (2) Roll left - primarily about the longitudinal
(999) Unknown 3.824 lbs x $4536 = 1.734$ kgs	axis (8) Rolloverend-over-end (9) Unknown roll direction
Source:	

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles,	58. Basis for Total (Resultant) Delta V O /
and no medium/heavy truck or bus underride	(00) No vehicle inspection
Override (see specific CDC) (Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)) (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) (Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)) (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated (04) At least one vehicle (which may be this Vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
(7) Medium/heavy truck or bus override (of any configuration)(9) Unknown	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (996) Non-horizontal impact (997) Noncollision (998) Impact with object (999) Unknown 53. Heading Angle For This Vehicle 54. Heading Angle For Other Vehicle RECONSTRUCTION DATA 55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit	 (05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available, (specify):
(9) Unknown 56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
(9) Unknown	

59. Total Delta V COMPUTER GENERATED CRASH SEVERITY Highest O O 5 63. Impact Speed 9 9	
	33. Impact Speed Highest 9 9 8
Nearest kmph (highest) Nearest kmph (secondary) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown Nearest kmph (highest) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown	Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run
Highest Delta V	DELTA V CONFIDENCE LEVEL 4. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable OTHER SPEED ESTIMATE Highest Barrier Equivalent Speed Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above

COTINEATED DELTA	Page
ESTIMATED DELTA V	INSPECTION TYPE
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection DELTA V EVENT NUMBER
•	TO ELL MONDEN
Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	68. Delta V Event Number Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown
*** IF THE CDS APPLICABLE VEHICLE WA	AS NOT INSPECTED (I.E., GV67=0), *** R AND INTERIOR VEHICLE FORMS
*** IF GV07 DOES NOT EQUAL (01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE	i
OCCUPANT ASSESSMENT, AND	i
	Cooci, att moditi i Othialo.
	_

U.S. Department of Transportation
National Highway Traffic Safety Administration

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Administrati	on							CR.	ASHWORT	HINESS C	DATA SYS
1. Prim	nary Sampling Unit N	_		0	3. Veh	nicle Nur	mber			-	Oâ
2. Case	e Number - Stratum		162	5							
			VEHICL	E IDEN	TIFICA	TION					
VIN 1	EMDU								Mode	l Year _	91
Vehicle N	Make (specify):	FOR	-D	·	Vehi	cle Mode	el (specif	y): <u> </u>	xpl	ore	
				LOCAT							
Locate ti impacts	he end of the dama or an undamaged ax	ge with res de for side i	pect to the mpacts.	vehicle	's dama -	aged cer	nter poir	nt or bui	mper co	rner for	r end
Specific Im	pact No. Location	of Direct Dam	nage		Locat	ion of Fiel	d L		Location	of Max	Crush
	OBC 0	VER	40 cm	START	5 30	sm ()060	enter	-		
·	39 Q	ofcer	ter								
	Identify the plane at		JSH PROF								
:	Impacts. Free space value is of the individual C local side taper, etc. Recurse use as many lines/controls.	ord the valu	necessary to	C-meas	uremen	: bumpe t and ma	ir lead, t aximum	oumper i crush.	body co taper, si	ontour t de prot	aken at rusion,
Specific Impact Number	Plane of Impact C-Measurements	Direct (Width (CDC)	Damage Max Crush	Field	С,	С,	C ₃	C ₄	C,	C ₆	± D
	REAR Bumper	40	9	49	9	7	5.5	4			†
	1728		7		7	5	5	4			<u> </u>
	RESULTANT	40	2	49	2	1.5	.5	٥			-69
·											
											<u> </u>
											
											ļ
											-

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase (112) 1/1.9 inches x 2.54 = 284.2 cm

Overall Length 184.3 inches x 2.54 = 468 cm

Maximum Width 70.2 inches x 2.54 = 178 cm

Average Track ______ inches x 2.54 = l = 58 cm Estimated

Front Overhang $\underline{29.6}$ inches x 2.54 = $\underline{75.2}$ cm

Rear Overhang $-\frac{42.8}{10.8}$ inches x 2.54 = $\frac{10.8}{10.8}$ cm

Undeformed End Width ____ inches x 2.54 = 158 cm

Engine Size: cyl/displ. ___ _ cc x 0.001 = $\frac{4.0}{1}$

V-6 MFI 245 CID x 0.0164 = 4.0 L

U32 series

3675 shipping wt (5-speed manual)
100 fluids

3775

Curb Weight (5-speed manual) 3,824 4-speed automatic ?

Unknown

SPECIAL CRASH INVESTIGATION ADDENDUM

Submodel Designation: {specify} Color: {specify} White Repair Cost: \$

Transmission: {drde} (Automatic) | Manual Speed: 3-speed (4-speed) 5-speed | Other:

Steering: {drde} (Power-assisted) | Manual Type: rack-and-pinion | worm-and-gear | Other

{please describe}: recirculating ball

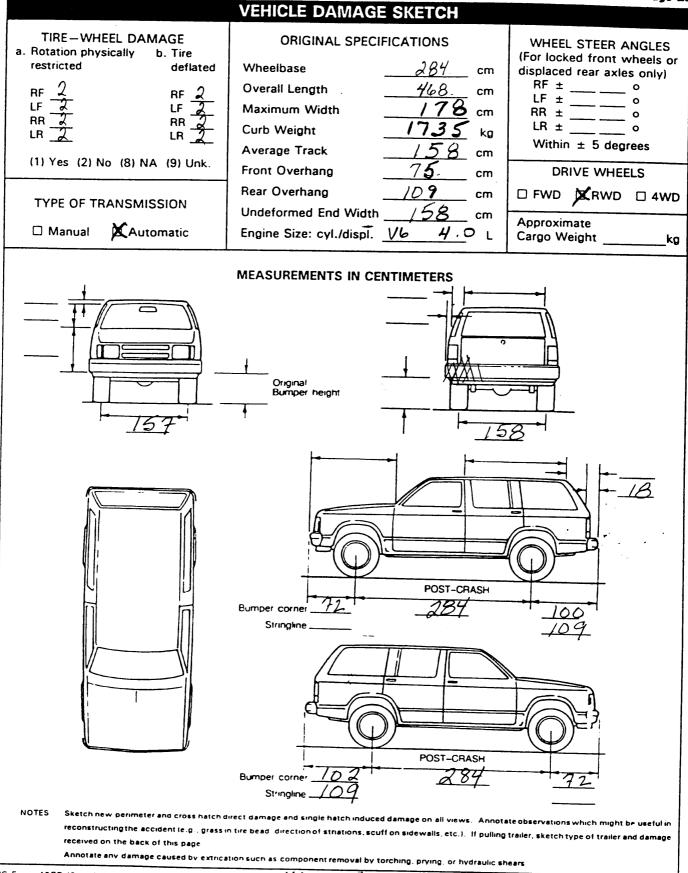
Brakes: {dirde} Power-assisted | Manual Type: 4-wheel disc | 4-wheel drum | 4-wheel hydraulic

front disc, rear drum Other:

Observed Defects: {specify}

Fleet Type: {drele} (Private vehicle | Rental vehicle | Leased vehicle | Commercial vehicle | Other

{please describe}:

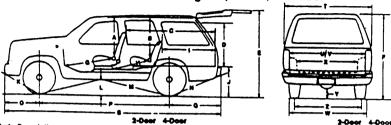


AUTOMOBILE REFERENCE BOOK-TRUCK SECTION

AUTOMOBILE REFERENCE BOOK-TRUCK SECTION										
Dodge Div., Chrysler Corp., Dimensions Ins										
Type of Body			Inche		:	Ship.	Tax	Max	wgt	List
Pass. Cap.	Mod el	W.B.	Lt.	Wt.	Ht.	Wt.	H.P.	GVW	class	Price
8-PS Wagon B250 Maxi	Base	127.6	224.7"	50.0"	79.7"	4567	48.92	6400	L	21,829
8-PS Wagon B350	Base		198.7"	50.0"	80.9"	4555		7500	Ĺ	18,950
Van B250	Base		196.9"	50.0			36.69	6010	L	16,643
12-PS Wagon B350 Maxi	Base		224.7"	50.0	80.6"		48.92	7500	Ļ	19,967
Van B350 Van B350	Base Base		196.9" 196.9"	50.0° 50.0°			48.92 48.92	7500 8510	L	17,086 17,086
Van B350 Maxi	Base		222.9"	50.0°			48.92	7500	ī	18,051
Van B350 Maxi	Base		222.9°	50.0°		4381		8510	ũ	18,051
1993 Ram Wagon & Van Bore & Stroke 4.0x3.58; Tax H.P Auto. Trans. 4-speed; EPA Milea	: 51.2; SAE I ge (Van) 12/	1.P. 230 16 (Wag	@4000; jon) 12/1	Torque 5		3200; D				
Van B350 Maxi	Base		222.9"				51.2	9000	L N. Marrim	18,434
Options Ram Wagon & Van: Desi Engine Cooling-\$66; Aux. Auto \$71; Trailer Towing Pkg-\$412	Trans. Coo	ling-\$64	t; Engin	e Block	Heate					
1993 Ramcharger V8 cyl Bore & Stroke 3.91x3.31; Tax H. Auto. Trans. 4-speed; EPA Milea	P. 48.92; SA					@ 3200;	D.P. 31	8 cu.in., 5.:	2 liter	
2-dr Utility 2WD	AD150S		188.8"	79.5"			48.92	5600	L	17,636
2-dr Utility 2WD	AD150		188.8"				48.92	5600	L	19,926
2-dr Utility 4WD	AW150S		188.8"	79.5"			48.92	6000 6000	L	19,985 21,696
2-dr Utility 4WD Options Ramcharger: Destinatio	AW150 Charges-\$		188.8" 'Conditi				48.92 n Buma		_	
Stereo-\$194 W/cassette-\$399; S										
tiSpin Differential-\$257; Sunscr									·	
FORD MOTOR CO.,	The Ame	erica	n Roa	d.	and des princes		Michi	gail		
1991 SIERRA 3500 CLUE Bore & Stroke 3.98x3.82; Tax H. Pickup 2WD E63/B3J Pickup 4WD E63/B3J			Manual T			wer Bra 9745		10000 10000	L	18,810 20,825
1991 SIERRA 3500 CLUE										
Bore & Stroke 4.25x4.0; Tax H.P		-		ns, VAC	Powe			40000		£47.00E
Pickup 2WD E63 Pickup 4WD E63	TC30953 TK30953	155.5° 155.5°					57.9 57.9	10000 8600		\$17,085 \$19,410
Options Sierra 3500 Club Coupe:				naine. 7	.4 L. V					
sion, 4-Spd. Auto O/D, \$870; Loci										
Control, \$346; Power Locks, \$344 \$272; Skid Plate, \$95; H.D. Spring	gs, \$63; Trail	er Equip	, \$408;	Tow Ho		8; Slidir	ng Windo	ws, \$113.		er,
FORD MOTOR CO.,	The Ame	erica	n Roa	d,	hinakta.		Michi	gan		
1992 Explorer 2 door V6 Bore & Stroke 3.95x3.32; Tax H.	cyl 4.0 lite P. 37.45:Man	EFI Trans	Gas E	ngine	(99X)					
XL 2WD	U22	102.0					37.45	4720	L	15,854
XL 4WD	U24	102.0					37.45	4780	L	17,644
Sport 2WD -	U22	102.0					37.45	4720		17,000
Sport 4WD Eddie Bauer 2WD	U24 U22	102.0°					37.45 37.45	4940 4720	L L	18,731 20,428
Eddie Bauer 4WD	U24	102.0					37.45	4780	ī	22,159
1992 Explorer 4 door V6	_	_			00VI					
Bore & Stroke 3.15x3.14; Tax H.										
XL 2WD	(U32	112.0		o woo	,	(3675	23.81	4720	L	16,692
XL 4WD	U34	112.0					23.81	5020	Ĺ	18,505
XLT 2WD	U32	112.0	1				23.81	5020	L	18,647
XLT 4WD	U34	112.0					23.81	4780	Ļ	20,401
Eddie Bauer 2WD	U32	112.0					23.81	5100 5240	L L	21,798 23,553
Eddie Bauer 4WD Options Explorer: Destination Cha	U34 arges-\$485	112.0				4040	23.81	5240	L	دردري
1992 F-150 6 cyl 4.9 liter Bore & Stroke 4.0x3.98; Tax H.P	Options Explorer: Destination Charges-\$485 1992 F-150 6 cyl 4.9 liter EFI Gas Engine(99Y) Bore & Stroke 4.0x3.98; Tax H.P. 38.4; D.P. 300 cu.in., 4.9 liter; Man. Trans. 5-speed w/OD									
Styleside Reg Cab S 2WD	F15	117.0				3843	38.4	5250	L	10,336
Reg Cab S 2WD	F15	133.0					38.4	5450	ī	10,572
Reg Cab 2WD	F15	117.0				3937		6050	L	12,807
			-	-						

FORD EXPLORER

Standard GVW Ratings: 4,480-5,180 Lbs.



Code	Description	2-Deer (Inches)	4-Door (Inches)	Code	Description
	Head Room (Front)	30.0	30.0	М	Ramp Brookever Angle (Dear
	Head Room (Rear)	39.0	30.1		-4WD
C	Cargo Longth to Front Seat	80.6	72.0	H	Departure Angle (Empty) 2
0	Liftgate Height	33.7	33.7		-4WD
E	Ground to Open Liftgate	78.9	77.3		Frent Overhang
7	Cab Height (Empty) - 2WD	47.5	67.3	<u> </u>	Wheelbase
	-4W0	67.4	67.3	0	Rear Overhang
	Cab Height (Leaded) - 2WO	84.4	84.8	3	Oversil Longth
	-4W0	66.1	86.1	1	Overall Width
•	Log Room (Front)	42.4	42.4	U	Shoulder Room (Frent)
H	Leg Room (Rea/)	36.6	34.8	v	Shoulder Room (Roor)
	Cargo Longth (Roar Sout Upright)	29.2	38.1	V	Hip Room (Front)
	Load Height (empty)	27.7	20.2	V	Hip Room (Rear)
ĸ	Approach Angle (Empty) — 2WD	28.4*	28.3*	w	Liftgale Width @ Floor
	-4W0	31.9*	31.9°	×	Width Between Wheelhouse
L	Stop Hoight(Empty) 2WO	10.3	18.1	Y	Anie Clearance (Rear)
		20.1	20.1	7	Treed Width (Frent/Rear)

ENGINE: Standard: 4.0L (425cid) EFI V-6, 155 GHP @ 4200 RPM.
Calif. Engine: 4.0L (425cid) EFI V-6, 155 GHP @ 4200 RPM.

MODELS AVAILABLE: 102.1° wb. 2-Door Compact Utility 4x2 or 4x4, with XL, Sport or Eddie Baur trim.

111.9" wb. 4-Door Compact Utility 4x2 or 4x4 with XL, XLT or Eddie Baur trim.

(Inches) (Inches)

20.2

726.6

733

67.1

61.8

61.0

47.0

ā 14

68.3

10.0

20.4

102.1

174.8

70.2 57.1

87.9

61.9

43.6

47.0

8 94

GVW RATING	MINIMUM EQUIPMENT REQUIRED FOR GVW RATING
4,580	Standard - 4x2, 2-Door, 149 lbs. Max. Reg. Prod. Opt. Wt.
4,720	4x2, 2-Door, 289 lbs. Max. Regular Product Option Weight.
4,780	Standard - 4x4, 2-Door, 189 lbs. Max. Reg. Prod. Opt. Wt.
4,860	4x4, 2-Door, 269 lbs. Max. Regular Product Option Weight
5,000	Standard - 4x4, 4-Door, 88 lbs. Max. Reg. Prod. Opt Wt.
5,040	Standard - 4x2, 4-Door, 305 lbs. Max. Reg. Prod. Opt. Wt.
5,120	4x2, 4-Door, 305 lbs. MRPOW & 600 lbs. Passenger Wt.
5,180	4x2, 4-Door, 305 lbs. MRPOW & 750 lbs. Passenger Wt.
5,180	4x4, 4-Door, 268 lbs. MPPOW & 750 lbs. Passenger Wt.
5,280	4x4, 4-Door, 305 lbs. MRPOW & 750 lbs. Passenger Wt.
5,320	4x4, 4-Door, 305 lbs. MRPOW & 900 lbs. Passenger Wt.
5,360	4x4, 4-Door, 305 lbs. MRPOW & 1,050 lbs. Passenger Wt.

FORD EXPLORER

Model CURB WEIGHT	WB	OAL	Front	Rear	Total
4x2, 2-Door	102.1	174.5	1,916	1,765	3,681
4x2, 4-Door	111.9	184.3	2,010	1,814	3,824
4x4, 2-Door -	102.1	174.5	1,989	1,852	3.841
4x4, 4-Door	111.9	184.3	2,111	1,901	4.012

Cargo Vol. 2-Door seat up /2-D. seat down/ 4-Door seat u (cu.ft.) 32.6 69.4 42.6

GENERAL SPECIFICATIONS

FRONT AXLE: w/4X2, Ford twin I-beam IFS, rated capacity 2,500 lbs. w/4x4, Ford twin-traction beam IFS drive axle, hypoid gear, rated capacity 2,750 lbs., ratio 3.55 (3.73 Opt.).

REAR AXLE: Ford single reduction, semi-floating, hypoid gear hotchkiss drive, rated capacity 3,200 lbs., ratio w/4x2, 3.27 (3.08, 3.73 Opt.); ratio w/4x4, 3.55 (3.73 Opt.) & Automatic locking front hubs. Optional: Limited slip differential; Manual locking front hubs w/4x4.

SERVICE BRAKES: Dual hydraulic Power w/Rear anti-lock brakes, self-adjusting 8.97"OD dual-diaphragm power booster, 10.28" dia. single piston (10.86" w/4x4) floating caliper disc front, 30.04 sq.in. lining area (34.95 sq.in. w/4x4); 10 x 2.5" (from rear, 96.72 sq.in. lining area, rear wheel anti-lock system.

PARKING BRAKE: Cable actuation of rear service brakes, foot-operated.

CLUTCH: 10" dia. single plate, woven non-asbestos, segmented disc, hydraulic clutch w/spring vibration damper, 71.3 sq.in. facing area.

COOLING SYSTEM: 7.8 quarts (8.3 opt.), 334 sq.in. frontal area radiator, belt driven 8-blade 17.7° dia. plastic fan.

DRIVE LINE: Tubular shafts, needle bearing universal joints.

ELECTRICAL SYSTEM: 12 V; 95 amp alternator; 72 amp/hr, 650 CCA MF battery. FRAME: 36,000 psi steel, single channel w/5-crossmembers, 6.08 x 2.28 x 0.15" side rails, 2.89 section modulus.

FUEL TANK: 19 gallon aft-of-axle mounted, w/skid plate.

STEERING: XR-50 power recirc.ball geal 17:1 ratio. Opt: Speed control/Tilt wheel: SUSPENSION: Front - Computer selected coil springs, w/4x2, capacity at pad/ground 1,257/1,075 lbs. each; w/4x4, 1,472/1,130 lbs. each. Rear - Multi-leaf, 2-stage variable rate, 1,020/1,325 lbs. each. Optional: 1,020/1,380 lbs. each; w/112 wb. only, 1,250/1,450 lbs. each.

TRANSFER CASE: w/4x4 only, Warner 1350, 2-speed, ratios 2.48, 1.00.

TRANSMISSION: (Mazda 5-speed HD manual w/OverDrive, full synch), ratios 3.40, 2.20, 1.50, 1.00, 0.79, reverse 3.42. (Optional: Ford A4LD, 4-sp. auto. w/OD) WHEELS AND TIRES: Five P225/70R15SL tubeless radial tires on 15° disc wheels,

6" JJ rims. Optional: P235/75R15SL tires; 7" JJ rims.

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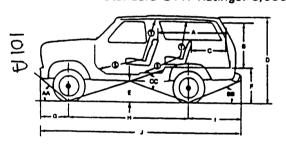
FORD EXPLORER

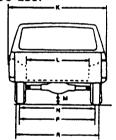
STANDARD EQUIPMENT: 102" 2-Door or 112" 4-Door models w/XL trim; Front & rear shock absorbers; Front & rear stabilizer bars; Cargo tie down hooks (4); Bright front & rear bumpers; Chrome grille; Heater/defroster; Front bucket seats; Folding split rear bench seat;; Electric interval wihshield wipers & washers; Electric shift 4x4 "Touch Drive"; Automatic locking front hubs; Mechanical jack; emission control system; Black foldaway LH & RH side mirrors; AM/FM radio; Tinted glass; Fuel tank skid plate; Transfer case skid plate w/4x4; Rear lift-gate w/flip window.

OPTIONAL EQUIPMENT: 6-passenger seating w/4-Door model; Sport or Eddie Bauer trim w/2-Door; XLT or Eddie Bauer trim w/4-Door; Air conditioner; Increased capacity elec./cooling systems; Roof rack; Light Group; Front Captain's chairs w/floor console; Calif. emissions certification; High altitude emission syst.; Manual locking front hubs; Trailer towing pkg.; Tilt-up roof opening; Rear window washer/wiper; Power window/lock group; Privacy glass; Up-graded audio system; Speed control/Tilt steering wheel.

FORD BRONCO 4 X 4

Standard GVW Ratings: 6,050-6,450 Lbs.





Code	Description	Inches Degrees
	Driver's Seat to Rear	62.2
8	Taligate Height	36.0
C	Corpo Longth	30.8
0	Overall Height	74.6
-6	Ground Clearance	6.1
F	Taligate Base to Ground	32.7
a	Front Overhang	30.6
н	Wheebase	104.7
1	Rear Overhang	46.3
J	Overall Length	190.5
K	Mex. Body Width	70.1
	Wheelhouse Width	60.8

Code	Description	Inches Degrees
M	Axie Clearance; Front	6.0
	Axio Clearance; — Rear	7.06
N	Front Troad Width	96,1
P	Rear Treed Width	64.4
R	Tallgate Incide Opening	63.5
8	Log Room Pront	41.1
	Log Room — Roor	37.7
T	Head Room — Front	41,2
	Head Room - Rear	30.3
- AA	Approach Angle	34.6*
98	Departure Angle	16.6*
œ	Ramp Breakever Angle	18.8*

FORD LIGHT & MEDIUM DUTY TRUCK ENGINES

· OILD EIG	SITT & WILDION	DOLL INOCK	ENGINES		
MODEL	2.3L (140) IL-4	2.9L(179)OHV V-6	3.0L (182) OHV V-6		
Application	Ranger	Ranger	Aerostar, Ranger		
Bore & Stroke	3.78 x 3.13	3.66 x 2.83	3.50 x 3.14		
Displacement	140 cu.in - 2.3L	179 cu.in 2.9L	182 cu.in - 3.0L		
Taxable HP	22.8	32.1	29.4		
Net BHP @ RPM	100 @ 4600	140 @ 4600	145 @ 4800		
Net Torque @ RPM	133 @ 2600	170 @ 2600	165 @ 3600		
Compression Ratio	9.2 to 1	9.0 to 1	9.3 to 1		
Fuel Metering Syst.		lectronic Fuel Injection)n		
MODEL	4.0L (245) V-6		5.0L (302) V-8		
Application	Aerostar/Ranger/	Bronco/E-150			
	Explorer	F-150/F-25	0/F-350		
Bore & Stroke	3.95 x 3.32	4.00 x 3.98	4.00 x 3.00		
Displacement	245 cu.in - 4.0L	300 cu.in - 4.9L	302 cu.in 5.0L		
Taxable HP	26.9	38.4	51.2		
Net Brake HP	155 w/Aero/Expl.	145*/150** @	185 @ 3800 RPM		
		3400 RPM	İ		
Net Torque @ RPM		265°/260°° @	270 @ 2400 RPM		
	225 w/Ranger	2000 RPM			
Compression Ratio	9.0 to 1	8.8 to 1	9.0 to 1		
Fuel Metering Syst.	E	lectronic Fuel Injection			
MODEL	5.8L + (351) V-8	5.8L++ (351) V-8	7.5L++ (460) V-8		
Application	Bronco-E/F250/350		/ F-250HD/ F-350		
Bore & Stroke	4.00 x 3.50		4.36 x 3.85		
Displacement	351 cu.in - 5.8L		460 cu.in 7.5L		
Taxable HP	51.2	51.2	60.8		
Net BHP @ RPM	200 @ 3800	200 @ 3800	230 @ 3600		
Net Torque @ RPM	300 @ 2400		390 @ 2200		
			8.5 to 1		
Fuel Metering Syst.	Electronic Fuel Injection				

Bronco, E-150 & F-150 w/3.08 axle ratio, only.
 *All other applications
 + w/Models under 8,500 lbs. GVWR.
 + + w/Models over 8,500 lbs. GVWR.

MODEL (Medium Duty)	7.0L (429) EFI, 90° V-8
Туре	Valve-in-Head
Emissions Certification	All States
Bore & Stroke	4.36 x 3.59
Displacement	429 cu. in 7.0 Liters
Taxable Horse Power	61.4
Net BHP @ RPM	235.6 @ 3600 RPM
Net Torque @ RPM	358 @ 2800 RPM
Compression Ratio	8.0 to 1
Fuel Injection System	Electronic Port Injection



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			CDC	WORKS	HEET					
CODES FOR OBJECT CONTACTED									-	
(01-30)) - Vehicle	Number			(57) Fenc					
Nonco	Noncollision				(58) Wall	_				
	(31) Overturn — rollover (excludes end-over				(59) Build					
(32)	Rollover-e	nd-over-end	es end-over-		(60) Ditch (61) Groui	or culvert				
(33)	Fire or expl	osion			(62) Fire h					
(34)	Jackknife				(63) Curb	iyurant				
(35)	Other intrac	ınit damage (spe	cify):		(64) Bridg	e				
(0.0)				Ó	68) Other	fixed object	(specify):			
(36)	Noncollision Other nonco	n injury ollision (specify):				own fixed ob				
(39)	Noncollision	– details unkno	own	-		Nonfixed Ob	•			
				• (70) Passe	nger car, ligh	njeci Ot truck van	or other		
Collisio	n With Fixed	Object			vehic	e not in-tran	sport			
(41)	Tree (≤ 10 (cm in diameter)		C	71) Mediu	ım/heavy tru	ck or bus no	t in-transpor	t	
(42)	Tree (> 10	cm in diameter)	•	(72) Pedes	trian		a a a a a a a a a a a a a a a a a a a	•	
(43)	Shrubbery of Embankmen	or bush		()	73) Cyclis	t or cycle				
				()	74) Other	nonmotorist	or conveya	nce		
(45)	Breakaway (pole or post (any	diameter)			e occupant				
Nonbra	akaway Pole	os Doos			76) Anima	ıl				
(50)	Pole or post	or Post (≤ 10 cm in dian			77) Train					
(51)	Pole or post	(> 10 cm hut c	30 cm in	(/	(78) Trailer, disconnected in transport					
(51) Pole or post (> 10 cm but s 30 cm in diameter)			30 cm m	()	(79) Object fell from vehicle in-transport(88) Other nonfixed object (specify):					
(52)	Pole or post	(> 30 cm in dia	meter)	,,	oo, Other	nomikea obje	ect (specify)	1:		
(53) Pole or post (diameter unknown)				(8	39) Unkno	wn nonfixed	object			
	Concrete tra			(9	8) Other	event (specif	y):			
(56)		barrier (includes	guardrail)	(9	9) Unkno	wn event or	object			
				· · · · · · · · · · · · · · · · · · ·						
		DEFORMA	TION CLASS	SIFICATION E	BY EVENT					
Accident		(1) (2)			Specific	(5) Specific	(6)			
Event Sequence	Object	Direction	Incremental	(3)	Longitudina	l Vertical or	Type of	(7)		
Number	Contacted	of Force (degrees)	Value of Shift	Deformation Location	or Lateral	Lateral	Damage	Deformation		
		1 ~		Cocation	Location	Location	Distribution	Extent		
01	01	175		<u>B</u>	<u></u>	E	E	0 /		
										
										
										
										
										
								<u> </u>		
_									1	

		COLLISION	DEFORMA	TION CLAS	SIFICATIO	N	
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. 0	5. <u>O</u>	6. 0 6	7. <u> </u>	8. <u> </u>	9. <u>E</u>	10. <u>E</u>	11. 0
Second Hi	ghest Delta "V	•					
12	13	14	15	16	17	18	19
		CRUS	H PROFILE	IN CENTIMI	ETERS		
	The crush prof	file for the dam opriate space t	age described below. (ALL M	in the CDC(s) a	above should to S ARE IN CEN	pe documented TIMETERS.)	i .
HIGHEST (DELTA "V"						
20. L	21. 			C	C ₅ (2:	2.
049	002	002	<u>001</u>	<u> </u>			_69
Second Hig	jhest Delta "V"						
23. L	24.	6	0			25	5.
	<u>C, </u>	C ₂		C ₄	C₅ C		± D
-				-		+	
							
(Coded impact i 	med End Width when highest so so an end plane in Code to the near 250 centimeters to highest seventh on the code to the code t	everity impact.) rest centimeter s or more	158	(650) 6 (999) U	code to the near entimeter 50 centimeters	or more	284
(For high (250) 2	amage Width nest severity im Code to the near 250 centimeters Jnknown	rest centimeter	040	(185) 1 (999) U	Average Track Node to the earest centimet 85 centimeters nknown	er or more	999

		FUEL SYSTEM
30. Are CDCs Documented but Not Coded on The Automated File?	<u>O</u>	35. Location of Fuel Tank-1 Filler Cap 36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank
(1) Yes	•	(1) On back plane(2) Aft of center of the rear wheels (rear axle) on left side plane
31. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	<u>O</u>	 (3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane
32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify):	0	(6) Over the center of the rear wheels (rear axle) on left side plane (7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown
(Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified		37. Type of Fuel Tank-1 38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
FIRE OCCURRENCE		39. Location of Fuel Tank-1
33. Fire Occurrence (0) No fire	0	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered
Yes, fire occurred (1) Minor (2) Major (9) Unknown		 (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered
 34. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown 		(5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown 41. Damage to Fuel Tank-1 42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

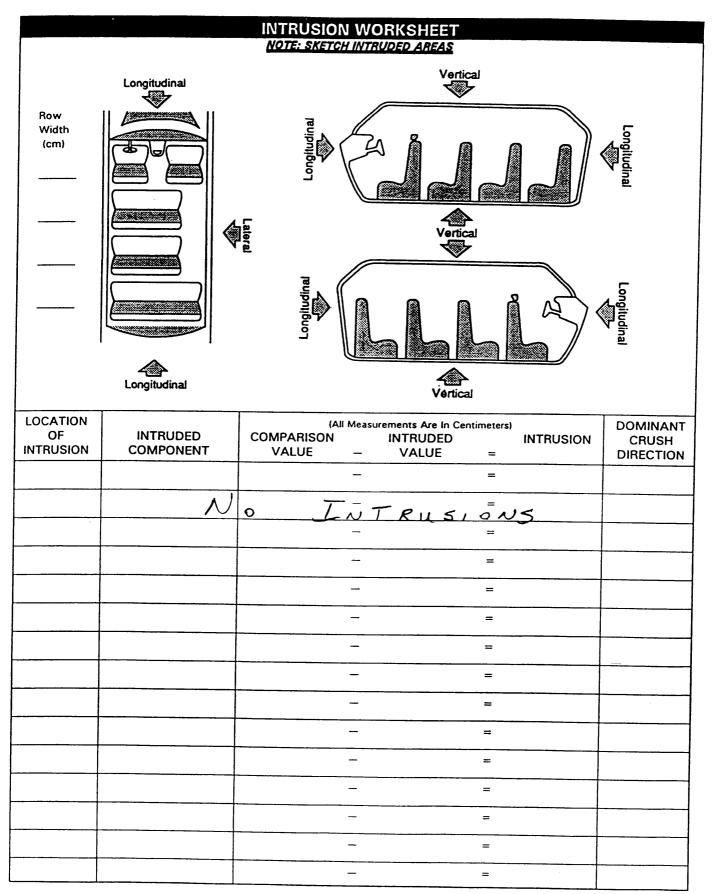
			, 		. ago
44. 45. 46.	Leakage Location of Fuel System-2 (O) No fuel tank (1) No fuel leakage Primary Area Of Leakage (2) Tank (3) Filler neck (4) Cap (5) Lines/pump/filter (6) Vent/emission recovery (8) Other (specify): (9) Unknown Fuel Type-1 Fuel Type-2 Single Fuel Type (00) No fuel tank (01) Gasoline (02) Diesel (03) CNG (Compressed Natural Gas) (04) LPG (Liquid Petroleum Gas) also known as Propane (05) LNG (Liquid Natural Gas) (06) Methanol (M100 or M85) (07) Ethanol (E100 or E85) (08) Other (Hydrogen or others) (specify): Electric Powered or Electric/Solar Powered Vehicles (10) Lead Acid Battery (11) Nickel-Iron Battery (12) Nickel-Cadmium Battery (13) Sodium Metal Chloride Battery (14) Sodium Sulfur Battery (18) Other (Specify):	0100	(3)	nis Vehicle Equipped With More Than Fuel Tanks? No (one or two tanks only) - More Than Two Tanks Yes no damage to any tank or filler cap and no fuel system leakage Yes no damage to any tank or filler cap but there is fuel system leakage (specify leakage location): Yes damage to an additional tank or filler cap and there is fuel system leakage (specify the following): Type of tank Tank location Filler cap location Tank damage Location of leakage Type of fuel Unknown if more than two tanks COMMENTS	-
() () () ()	Powered Vehicles [10] Lead Acid Battery [11] Nickel-Iron Battery [12] Nickel-Cadmium Battery [13] Sodium Metal Chloride Battery [14] Sodium Sulfur Battery [18] Other (Specify):				
	98) Other Hybrid (specify): ———————————————————————————————————				
	*** STOP: IF THE CDS AP	PLICABLE (GV10		E WAS NOT TOWED ***	

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

Administration INTENIOR	VEHICLE FURIVI NATIONAL ACCIDENT SAMPLING SYST CRASHWORTHINESS DATA SYST
1. Primary Sampling Unit Number / (GLAZING
2. Case Number - Stratum 96 25	Type of Window/Windshield Glazing
	7 15. WS 16. LF 217. RF 18. LR 219. RR
3. Vehicle Number	20. BL 3 21. Roof 22. Other 2
INTEGRITY	· · · · · · · · · · · · · · · · · · ·
4. Passenger Compartment Integrity (00) No integrity loss Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify):	(0) No glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-with additional after market tint) (6) AS-14 — Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify): (9) Unknown Window Precrash Glazing Status 23. WS
Door, Tailgate or Hatch Opening 5. LF 6. RF 7. LR 8. RR 9. TG/H (0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify):	Glazing Damage from Impact Forces 31. WS / 32. LF / 33. RF / 34. LR / 35. RR / 36. BL / 37. Roof 38. Other / (0) No glazing (1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces
Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	(5) Glazing out-of-place and noted from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (9) Unknown if damaged
10. LF <u>O</u> 11. RF <u>O</u> 12. LR <u>O</u> 13. RR <u>O</u> 14. TG/H	Glazing Damage from Occupant Contact
(0) No door/gate/hatch or door not opened	39. WS_/ 40. LF/41. RF_/ 42. LR/43. RR/
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	(0) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact (6) Glazing out-of-place by occupant contact and holed by occupant contact (7) Glazing removed prior to accident (8) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant

STEERING RIM/SPOKE DEFORMATION (All Measurements Are in Centimeters)							
			=	·			
N	o	DEFORM	AT.	0 1 1			
		ERRI	/ 				
	_		=				

			occi	JPANT A	REA INTRUSION	age
Note: I	f no intrusion	ns, leave varia	bles IV47-IV	/86 blank.	INTRUDING COMPONENT	
	Location of Intrusion	Intruding Component	Magnitude of Intrusion	1 74	Interior Components (01) Steering assembly (02) Instrument panel left (03) Instrument panel center	
1st 4	7	48	49	50	(04) Instrument panel right (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar	
2nd 5	1	52	_ 53	54	(08) C-pillar (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side)	
3rd 5!	5	56	_ 57	58	(12) Side panel - rear of the B-pillar (13) Roof (or convertible top) (14) Roof side rail (15) Windshield	
4th 59	9	60	61	62	(16) Windshield header (17) Window frame (18) Floor pan (includes sill) (19) Backlight header	
5th 63	3	64	65	66	(20) Front seat back (21) Second seat back (22) Third seat back (23) Fourth seat back	
6th 67	7	68	69	70	 (24) Fifth seat back (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 	
7th 71	·	72	73	74	Exterior Components	
8th 75	·	76	77	78	(30) Hood(31) Outside surface of this vehicle (specify):	
9th 79	·	80	81	82	 (32) Other exterior object in the environment (specify):	
10th 83	·	84	85	86	(specify):(99) Unknown	
LOCATION	N OF INTRU	SION			MAGNITUDE OF INTRUSION	
(13) Second (21) (22)	Left Middle Right Seat Left Middle	(98) C	.eft ⁄liddle	ed	 (1) ≥ 3 centimeters but < 8 centimeters (2) ≥ 8 centimeters but < 15 centimeters (3) ≥ 15 centimeters but < 30 centimeters (4) ≥ 30 centimeters but < 46 centimeters (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters (7) Catastrophic (9) Unknown 	
(23) Third Se (31) (32) (33)	eat Left Middle	(99) Ū	Inknown		DOMINANT CRUSH DIRECTION (1) Vertical (2) Longitudinal (3) Lateral (7) Catastrophic (9) Unknown	



STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type (1) Fixed column	92. Odometer Reading <u>1 6 7,000</u>
(2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown LD4.082 miles x 1.6093 = LD7.50 kilometers
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down	Source: DOM 93. Instrument Panel Damage from Occupant Contact? (0) No - (1) Yes (9) Unknown
(9) Unknown 89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint	94. Type of Knee Bolster Covering (0) No knee bolster (1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown 95. Knee Bolsters Deformed from
(4) Between midpoint and full forward (5) Full forward (9) Unknown 90. Steering Rim/Spoke Deformation	Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown
Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown 97. Adaptive (Assistive) Driving Equipment
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	(0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify):

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
A-Type of air bag?	D	0
B-Flaps open at tear points?	0	0
C-Flaps damaged?	0	0
D-Air bag damaged?	00	00
E-Source of air bag damage	00	00
F-Air bag tethered?	0	0
G-Air bag have vent ports?	0	2
H-Other occupant contact air bag?	0	0
I-Occupant wearing eyewear?	0	8

A-Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

C-Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

D-Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured -
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

E-Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

F-Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

G-Did The Air Bag Have Vent Ports?

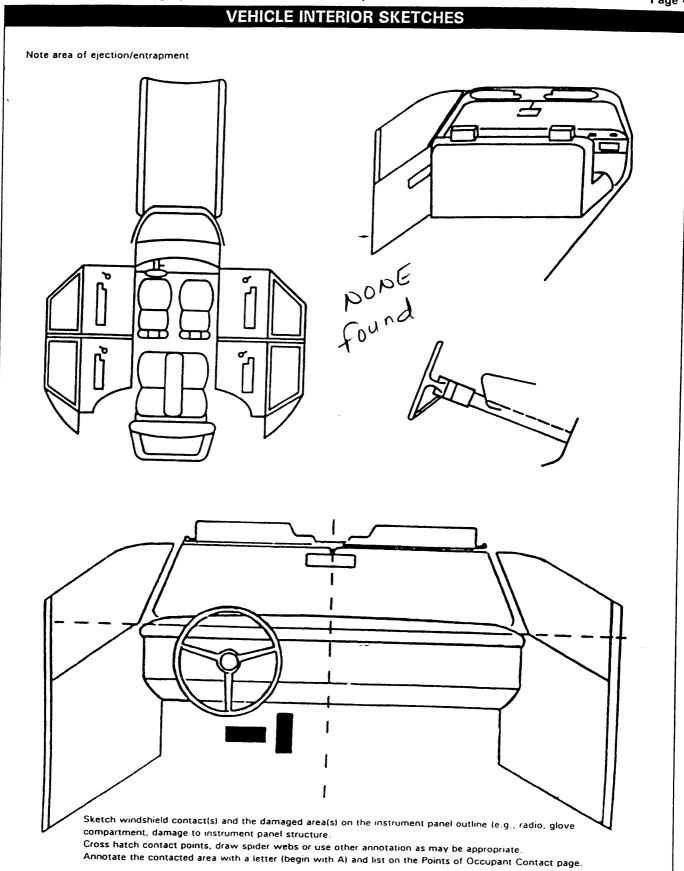
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

I-Was This Occupant Wearing Eye-wear?

- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown



		POIN	TS OF OC	CUPANT CONTACT		
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physica	I Evidence	Confider Level of Contact Point
Α						10
В						
С						
D						
E			1			
F						
G						
н						
					ily ·	
J						
K						
L	-					
M						
N						
lever, other at 108) Cellular teleph radio 109) Add on equipt tapedeck, air (10) Left instrumer below 11) Center instrumer below 12) Right instrumer below 13) Glove compan 14) Knee bolster 15) Windshield inc	el hub/spoke el (combination and 005) mission selector trachment	armrests (052) Left side I armrest (053) Left A (A) (054) Left B-pill (055) Other left (056) Left side I (057) Left side I (058) (058) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Left side I (059) Right Side I (059) Right side I (059) Right side I (059) Right Side I (059) Right	I/A2)-pillar ar pillar (specify): window glass window frame window glass one or more of the frame, window (A2)-pillar, B-pillar, e rail. window glass one or more of the frame, window fallar ar pillar (specify): window glass window glass window glass window glass ne or more of the frame, window A2)-pillar, B-pillar, trail.	(151) Seat, back support (152) Belt restraint webbing/buckle (153) Belt restraint B-pillar or door frame attachment point (154) Other restraint system component (specify): (155) Head restraint system (160) Other occupants (specify): (161) Interior loose objects (162) Child safety seat (specify): (163) Other interior object (specify): AIR BAG (170) Air bag-driver side (175) Air bag compartment cover-driver side (180) Air bag-passenger side (180) Air bag compartment cover-passenger side (190) Other air bag (specify) (195) Other air bag compartment cover (specify) ROOF (201) Front header (202) Rear header (203) Roof left side rail (204) Roof night side rail (205) Roof or convertible top FLOOR (251) Floor (including toe pan) (252) Floor or console mounted transmission lever, including console (253) Parking brake handle	door, etc. (303) Other rear object ADAPTIVE (ASSISTIVE EQUIPMENT (401) Hand controls for braking/accelera (402) Steering control (attached to OEI wheel) (403) Steering knob at steering wheel (405) Replacement ste (i.e., reduced dia (406) Joy stick steering (407) Wheelchair tie-do (408) Modification to s (specify): (409) Additional or relo switches, (specif (411) Raised roof (411) Wall mounted he (used behind who (412) Other adaptive do (specify):	DRIVING or tion devices M steering tached to ering wheel meter) g controls owns leat belts, leated y): ad rest sel chair)

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

Frontal Air Bags--Left Front Frontal Air Bags-Right Front OtherAir Bag F Availability/Function O Deployment O Failure Frontal Air Bags-Right Front OtherAir Bag

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Air Bag System Deployment

(This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
	A-Availability/Function	0	0
F	B-Use	0	0
R	C-Type	0	0
5 T	D-Proper Use	٥	0
	E-Failure Modes	6	8

A-Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

B-Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

C-Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

D-Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

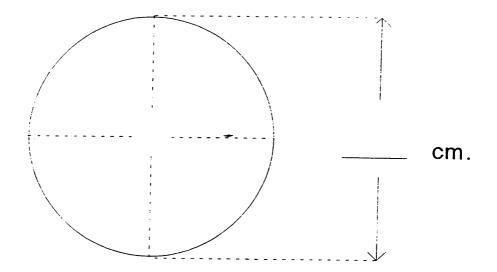
E-Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

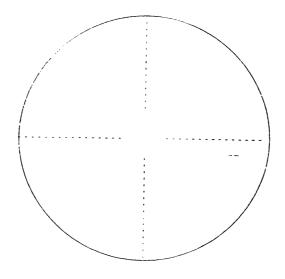
		I/	ANUAL REST	RAINTS			
тои	ES: Encode the applicable data Restraint systems should be	for each s	seat position in the v	ehicle. The att	ribute coded o	for the variable may be found be on the Occupant Assessment Fo	elov
	If a child safety seat is prese	ent, encod	le the data on the ba	ck of this page	11.		****
	If the vehicle has automatic					page 6.	
			Left		nter	Right	
	A-Availability	\neg	J				
F	B-Evidence of usage		74				
1	C-Used in this crash?	\neg	7.4			- 57	
R S	D-Proper Use		- 	 			
T	E-Failure Modes						
	F-Anchorage Adjustment						
	A-Availability		4				
_	B-Evidence of usage		-7	1 2	2	7,	
S F	C-Used in this crash?		07	0	? —	04,	
Č	D-Proper Use			1 / -	₽	04	
SECOND	E-Failure Modes			 			
Ď			/				
	F-Anchorage Adjustment			ļ		/	
	A-Availability			ļ			
Õ	B-Evidence of usage						
T H	C-Used in this crash?						
E	D-Proper Use						
R	E-Failure Modes						
-	F-Anchorage Adjustment						
(0) (1) (2) (3) (4) (5)	ual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown gral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed)	(0) (1) (2)	Use of Manual (Active None used or not ava Belt used properly Belt used properly wiseat Used Improperly Shoulder belt worn use Shoulder belt worn be seat Belt worn around more	ilable th child safety nder arm shind back or	(2) (3) (4) (5)	der Belt Upper Anchorage Adjustmen No shoulder belt No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage In full up position In mid position In full down position Position unknown	- 1
	Lap belt (shoulder belt destroyed/removed) Other belt (specify):	(6) (7)	person Lap belt worn on abdo Lap belt or lap and sh	omen	(9)	Unknown if position has adjustable upper anchorage adjustment	,
(9)	Unknown		used improperly with	child safety			-
(3)	Olkhown	(8)	seat (specify): Other improper use of	manual bolt			-
B/C-Ma (00)	nual (Active) Belt System Use None used, not available, or belt		system (specify):	mandar bert			
(01)	removed/destroyed Inoperable (specify):	(9)	Unknown				ı
(02)	Shoulder belt	E-Manual	(Active) Belt Failure Mo	des During			1
(03) (04)	Lap belt Lap and shoulder belt	Accident					
(05)	Belt used - type unknown	(O) (1)	No manual belt used on the manual belt failure	or not available			
(08)	Other belt used (specify):	(2)	Torn webbing (stretch				l
(12)	Shoulder belt used with child safety seat	(3)	not included) Broken buckle or latch	plate			
(13)	Lap belt used with child safety seat	(4) (5)	Upper anchorage separ Other anchorage separ	rated			
(14)	Lap and shoulder belt used with		(specify):	ateu			
(15)	child safety seat Belt used with child safety seat - type unknown	(6) (7)	Broken retractor Combination of above	(specify):			
(18)	Other belt used with child safety seat (specify):	(8)	Other manual belt failu	ire (specify):			
(99)	Unknown if belt used	(9)	Unknown				

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



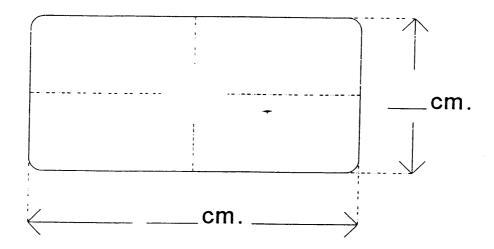
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



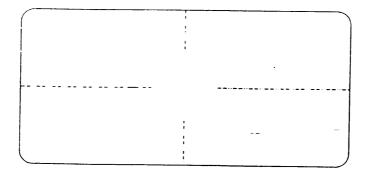
DRIVER AIR BAG SKETCHES (Cont'd) 3. DRIVER AIR BAG MODULE COVER FLAP SIZE 4. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE) (DOUBLE) a. Upper Flap b. Lower Flap width (W_u) _____ width (W_L) ____ width (W_U) _____ width (W_L) ____ height (H) height (H_U) _____ height (H_L) ____ 5. SKETCH OF OTHER TYPE OF AIR BAG MODULE 6. SKETCH OF OTHER TYPE OF AIR BAG VENT **FLAP AND SIZE PORTS** 7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT **PORTS**

PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BA	G SKETCHES (Cont'd)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) width (W) height (H)	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap b. Lower Flap width (W _U) width (W _L)
₩ ———	height (H _u) height (H _L)
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS 10 11 12 1 2 9 3 8 7 6 5 4	

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES				
SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)				
_				
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)				
				
,				

"OTHER" AIR BAG SKETCHES (Cont'd)				
3. SKETCH AIR BAG MODULE FLAP AND SIZE OR OPENING FOR AIRBAG				
	·.			
4. SKETCH AIR BAG VENT PORTS				

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
İ	A-Head Restraint Type/Damage			
_	B-Seat Type			
F	C-Seat Orientation			
R	D-Seat Track Position			
Ť	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance	-		
	A-Head Restraint Type/Damage			
	B-Seat Type			
S E	C-Seat Orientation			
CO	D-Seat Track Position			
N D	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance		4	
	A-Head Restraint Type/Damage			
т	B-Seat Type		·	
Ĥ	C-Seat Orientation			
I R	D-Seat Track Position			
D	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			
	A-Head Restraint Type/Damage			
0	B-Seat Type			
T H	C-Seat Orientation			
E R	D-Seat Track Position			
,,	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

C	HILD SAFET	Y SEAT FIE	LD ASS	ESSMENT	•	
When a child safety seat is portion the occupant's number using	resent enter the	occupant's num	ber in the	first row and	complete the co	olumn below at present.
Occupant Number	04					
Type of Child Safety Seat						
Child Safety Seat Orientation						
Child Safety Seat Harness Usage						
4. Child Safety Seat Shield Usage					: Etc.	
Child Safety Seat Tether Usage						
Child Safety Seat Make/Model		Specify B	elow for E	ach Child Sat	fety Seat	
1. Type of Child Safety Sea (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety (8) Unknown child safety (9) Unknown if child safety (9) Unknown if child safety (00) No child safety seat Designed for Rear Facing This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (sp	y seat (specify): seat type ty seat used tion	4. 5.	Child Safe Note: Opt (00) No o Not Desig (01) Afte adde (02) Afte (03) Child harn (09) Unki adde	child safety some with Hauser market harmed, not used or market harmed safety seat ess/shield/temown if harmed or used with Harness	eld Usage her Usage Are Used for Valeat rness/Shield/Teth ness/shield/teth used, but no atther added ess/shield/tethe	ther er er used fter market
Designed for Forward Face Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (sp Unknown Design or Orient Age/Weight, or Unknown (21) Rear facing (22) Forward facing (28) Other orientation (sp Unknown orientation (sp Unknown orientation (99) Unknown if child safe	ecify): ation For This Age/Weight ecify):	6.	(11) Harn (12) Harn (19) Unkr Unknown (21) Harn (22) Harn (29) Unkr (99) Unkr	ess/shield/te ess/shield/te nown if harne If Designed Vess/shield/te ess/shield/te nown if harne nown if child	ther not used ther used ess/shield/tether with Harness/Slither not used ther used ess/shield/tether safety seat use	hield/Tether · used

HEAD RESTRAINTS/SEAT EVALUATION

A-Head Restraint Type/Damage by E-Seat Back Incline Prior and Post Occupant at This Occupant Position Impact (0) No head restraints (00) Occupant not seated or no seat (1) Integral — no damage(2) Integral — damaged during (01)Not adjustable Upright prior to impact accident (11) Moved to completely rearward (3) Adjustable — no damage(4) Adjustable — damaged during position 14 13 15 Moved to rearward midrange accident 16 12 (5) Add-on — no damage(6) Add-on — damaged during position Moved to slightly rearward (13)position accident Retained pre-impact position (8) Other (15)Moved to slightly forward Specify): position (9) Unknown Moved to forward midrange (16)position Moved to completely forward (17)position **B-Seat Type (this Occupant** Position) Slightly reclined prior to impact (00) Occupant not seated or no 24 (21) Moved to completely rearward seat 26 position (01) Bucket (22)Moved to rearward midrange (02) Bucket with folding back position (03) Bench 21 (04) Bench with separate back (23)Retained pre-impact postion Moved to upright position cushions (25) Moved to slightly forward (05) Bench with folding back(s) (06) Split bench with separate back position (26)Moved to forward midrange cushions position (07) Split bench with folding (27) Moved to completely forward back(s) position (08) Pedestal (i.e., column supported) Completely reclined prior to impact (09) Box mounted seat (i.e., van (31) Retained pre-impact position type) (32) Moved to rearward midrange 34 33 (10) Other seat type (specify): 35 position 36 32 (33)Moved to slightly rearward (99) Unknown position (34)Moved to upright position Moved to slightly forward (35)position C-Seat Orientation (this Occupant (36)Moved to forward midrange Position) position (0) Occupant not seated or no Moved to completely forward (37)seat Forward facing seat position (2)Rear facing seat Coding diagrams for Seat Back Incline (99) Unknown (3) Side facing seat (inward) Position Prior and Post Impact Side facing seat (outward) (4) (8) Other (specify): F-Seat Performance (this Occupant (9) Unknown Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) **D-Seat Track Adjusted Position Prior** Seat adjusters failed (3) Seat back folding locks or "seat To Impact back" failed (specify): (0) Occupant not seated or no seat (4)Seat tracks/anchors failed (1) Non-adjustable seat track Deformed by impact of occupant (5)(6) Deformed by passenger Adjustable Seat Track Seat at forward most track compartment intrusion (specify): position (7) Combination of above (specify): (3) Seat between forward most and middle track positions (8) Other (specify): Seat at middle track position Seat between middle and rear (5) (9) Unknown most track positions (6)Seat at rear most track position

(9)

Unknown

EJECTION No 1 Yes [Describe indications of ejection a	1			
Occupant Number				
Ejection				
(Note on Vehicle Interior Sketch) Ejection Area				
Ejection Medium				
Medium Status				
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown	(7) Roof (8) Other area (e.g. pickup, etc.) (sp		(5) Integral (8) Other m (9) Unknow	edium (specify):
ijection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	Ejection Medium (1) Door/hatch/tailg (2) Nonfixed roof st (3) Fixed glazing (4) Nonfixed glazing	ructure	Medium Statu to Impact) (1) Open (2) Closed (3) Integral (9) Unknow	s (Immediately Prior structure
ENTRAPMENT No. 1 Yellowscribe entrapment mechanism:	s []			
component(s):				

NASS CDS INTERVIEW FORM: CASE VEHICLE DRIVER

INTERVIEW FORM (A)

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number Case Number - Stratum	6 25	Interviewee(s) Role or Name(s): DRIVER 2 husband w/ AHN
3. Vehicle Number	01	Phone number:
Review all available information a	ind interview o	questions prior to conducting interview(s) to ensure the

If the driver was not the person interviewed, was an appointment made for a follow-up interview?

DRIVER'S	DESCRIPTION	OF ACCID	ENT EVENTS

T. E. Standardson at	
Going West on St. Approaching inte	csect
had gone Around statue. I looked up	900
traffic was stopped. I hit BRAKES on	d
steered to Left. And hit other CAR (1) RE.	AN
corner w/ my front right	

HAD	just le	oft sto	se A	blacks	AUAL	and we
were	or our	uny)	home.	Just	A few	blocks
from	home					

OCCUPANT'S DESCRIPTION OF ACCIDENT EVENTS

ACCIDENT DIAGRAM
Use this diagram to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.
NORTH

	CRASH DATA INFORMATION
IF POSSIBLE O	DBTAIN THIS INFORMATION FROM THE DRIVER:
SOURCE OF INFORMATION:	[X Driver [] Other occupant [] Relative/friend
TRAVEL DIRECTION?	[] North [] South [] East [West (Or where were they coming from or going to?)
LANE?	1 2 3 4 Other Note: lane 1 is the right curb lane
ROAD CONDITION?	[X Dry [] Wet [] Snow [] Slush [] Ice [] Sand, dirt, oil [] Other (specify)
WEATHER CONDITIONS? (Check all that apply)	No adverse conditions [] Rain [] Fog - [] Sleet [] Hail [] Snow [] Other (specify)
SIGN OR SIGNAL PRESENT? (check all that apply)	Traffic control signal (includes flashing beacons, lane control signals, and green / amber / red signal) [] Stop sign [] Yield sign [] School zone sign [] Other regulatory sign (No "U" turn, left turn only, wrong way, etc.) specify:
	[] Warning sign (Winding road sign, stop ahead, intersection signs, etc.) specify: [] Miscellaneous control (including railroad controls) specify: [] None [] Unknown
WAS THE CONTROL FUNCTIONING PROPERLY?	No traffic control device present Not functioning properly (includes defaced, badly worn, covered with snow, rotated etc.) specify: Functioning properly Unknown
SPEED BEFORE THE IMPACT? (in mph)	[] Stopped [X] 11-20 5 31-40 351-60 370 + 11-10 321-30 341-50 361-70 301-800
BEFORE IMPACT, INTENDING TO ? (check all that apply)	[X] Go straight [] Stopped [] Turn left [] Turn right [] Slow down [] Accelerate [] Back up [] Change lanes to right [] Other (specify): [] Change lanes to left what to intersection then turn (see
CONTROL LOSS DUE TO WEATHER OR MECHANICAL PROBLEMS?	[No [] Unknown [] Yes (describe)
AVOIDANCE ACTIONS?	[] None
LOCATION OF VEHICLE AT TIME OF IMPACT?	[Original travel lane Different travel lane In intersection Off roadway to right Off roadway to left Other (specify):
SPEED AT THE TIME OF MPACT? (in mph)	[Stopped
DESCRIBE ALL THE IMPACTS of the vehicle and how this vehicle moved to its stopped position, after the collision?	

	ROLLOVER DATA
DID THIS VEHICLE ROLL OVER	DURING THE CRASH?
[] YES ASK THE FOLLOWING ([X] NO SKIP TO "FIRE DATA" BELOW [] UNKNOWN SKIP TO "FIRE DATA" BELOW
ROLLOVER BEGAN	[] On roadway [] On shoulder [] On roadside or median [] Unknown
ROLLOVER CAUSE?	[] Other vehicle (specify vehicle number) [] Contact to object (specify): [] Other cause (specify): [] Unknown
DIRECTION OF VEHICLE ROLL?	[] Toward the right (passenger side) [] Toward the left (driver side) [] End-over-end [] Unknown
NUMBER OF TURNS	Number of QUARTER TURNS [] Unknown Number of COMPLETE TURNS
PLANE IN CONTACT WITH	
GROUND AT FINAL REST?	[] Left side [] Top [] Right side [] Wheels [] Unknown
	[] Right side [] Wheels [] Unknown
	[] Right side [] Wheels
GROUND AT FINAL REST?	[] Right side [] Wheels [] Unknown
GROUND AT FINAL REST?	FIRE DATA A FIRE? [] Wheels [] Wheels
GROUND AT FINAL REST? OID THIS VEHICLE EXPERIENCE () YES ASK THE FOLLOWING (FIRE DATA A FIRE? [] Wheels [] Wheels
IRE START WITH THE LECTRICAL SYSTEM?	FIRE DATA FIRE? [] NO SKIP THIS SECTION [] UNKNOWN SKIP THIS SECTION [] Under the hood
ID THIS VEHICLE EXPERIENCE YES ASK THE FOLLOWING OF SMOKE VAS FIRST SEEN IRE START WITH THE LECTRICAL SYSTEM? No	FIRE DATA A FIRE? [] NO SKIP THIS SECTION [] UNKNOWN SKIP THIS SECTION [] Under the hood [] In the trunk/cargo area [] Behind the instrument panel [] In the passenger compartment [] Irrom other involved vehic [] Yes (specify):
GROUND AT FINAL REST? DID THIS VEHICLE EXPERIENCE () YES ASK THE FOLLOWING OF STARTED, OR SMOKE WAS FIRST SEEN TIRE START WITH THE LECTRICAL SYSTEM?	FIRE DATA A FIRE? [] NO SKIP THIS SECTION [] UNKNOWN SKIP THIS SECTION [] Under the hood [] Behind the instrument panel [] In the trunk/cargo area [] Behind the instrument panel [] In the passenger compartment [] From other involved vehicle [] Yes (specify):

	TIONAL VEHICLE INFORMATION
YEAR, MAKE AND MODEL?	Year: 19 <u>9 5</u> Make: <u>FORD</u> Model: <u>MUSTANG</u>
PREVIOUS OR POST-CRASH DAMAGE?	No [] Yes - describe: [] Unknown
DOORS OR HATCH OPEN DURING THE CRASH?	No
WINDOWS BREAK DURING THE CRASH?	[] No Check all that apply [XYes [X] WS [] LF [] RF [] LR [] RR
WINDOW PRECRASH STATUS	[] WS [] LF [] RF [] LR [] RR [] BL [] Roof [] Other "O" = open "C" = Closed "P" = partially open "U" = Unknown
GLOVE COMPARTMENT DOOR OPEN DURING THE CRASH?	[] No [] Yes - describe: [X] Unknown
CARGO IN THE VEHICLE?	[] No [] Unknown [X] Yes - describe: 3 bags of clothes Approximate weight - 25 pounds 11,3 kg
/EHICLE MILEAGE	miles [🏹 Unknown
F VEHICLE HAS NOT BEEN NSPECTED	Current location of the vehicle: Contact person:

SPECIAL CRASH IN	VESTIGATION ADDENDUM: DRIVER INFORMATION
Do you recall the type of development in the area of the crash?	[] Residential [X] Commercial [] Industrial [] Agricultural [] Undeveloped [] School [] Other:
What were the weather conditions at the time of the crash?	[X] Clear (no clouds, no precipitation) [] Cloudy (partially cloudy, no precipitation) [] Overcast (full cloud cover, no precipitation) [] Precipitating [] Unknown
What was the type of pre- cipitation?	[No precipitation [] Unknown [] Raining [] Freezing rain [] Sleeting [] Snowing [] Hailing
What was the condition of the road surface?	[X] Dry [] Wet [] Snowy, slushy [] Icy [] Other (e.g., sand, dirt, oil on surface, etc.) [] Unknown
How would you describe the amount of traffic at the time of the crash?	[] Heavy [] Moderate [] Light [] No other traffic present
What is your occupation?	[] Professional [] Technical [] Government official [] Management [] Proprietors [] Sales [] Clerical [] Craftsman and foreman [] Service worker [] Student [] Farmers and farm-managers [] Farm labors and foreman [] Private household worker [] Housewife [] Other:
How long have you driven this vehicle?	Years: Months:
How many miles do you think that you have driven it in the last 12-month period?	Miles: 18,000 bought w/31 000 Has 49,000
How often do you drive this particular roadway?	Daily [] Twice weekly [] Once weekly [] Twice monthly [] Once monthly [] Very infrequently [] First time on road
Where were you coming from just prior to the crash?	[] Home [] Work [] School [> Shopping [] Social/recreational [] Restaurant [] Personal business [] Other:
Where were you intending to go when the crash oc- curred?	Home Work School Shopping Social/recreational Restaurant Personal business Other:

	OCCI	UPANT DATA QU	ESTIONS	
но	W MANY PEOPLE WERE IN THE VEHIC	LE AT THE TIME OF TH	HE CRASH?	
		DRIVER	OCCUPANT # 2	OCCUPANT # 2
SE	ATING POSITION?		<i>Q</i> .	TOOUT AILT #
Fron	nt Left (FL) Second Left (2L) nt Middle (FM) Second Middle (2M) nt Right (FR) Second Right (2R)	FRONT LEFT	FR	a R
Third	d Left (3L) Other (SPECIFY in block) d Middle (3M) d Right (3R)			
SEX	K, HEIGHT, WEIGHT, AND AGE?	[] M — [] F - Not pregnant [] F - Pregnant - # of months	[] F - Not pregnant [] F - Pregnant - # of months	M [] F - Not pregnant [] F - Pregnant - # o months
CIR	CLE DRIVER'S RACE:	[] F - Unk. if pregnant	[] F - Unk. if pregnant	L] F - Unk. if pregnan
Whit	J,	<u> </u>	HEIGHT: 46 WEIGHT: 50 AGE: 4	WEIGHT: 54 WEIGHT: 84 AGE: 9
Othe	mo or Aleut Asian or Pacific Islander er (specify):	DRIVER OF HISPANIC ORIGIN?	**	***
000	CUPANT POSTURE	[] Leaning to left	Leaning to left	(V)
A) B)	Kneeling or standing on seat Lying on or across seat Kneeling, standing or sitting in front of seat	Leaning to right Sitting upright Unknown	[] Leaning to right [] Sitting upright [] Unknown	Leaning to left Leaning to right Sitting upright Lunknown
O) ≣) : ∃) ! G) (Sitting sideways, turned to side or back Sitting on console Lying back in reclined position Other (specify) Unknown	Indicate all letters that apply and describe if other than above	Indicate all letters that apply and describe if other than above	Indicate all letters that apply and describe if other than above
OC.	T AND HANDS/ARMS ATION T PRIOR TO IMPACT	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed
.) (FEET		hanging	hanging
	On floor or foot controls One or both on dash	D	hanging over seat.	hanging ovzk sext
	One or both on seat Other (specify)		ser.	sext
ι	Jnknown			
В	HANDS / ARMS Soth hands on steering wheel	(F) OP	unK.	unK
) (One on wheel, other hand resting or djusting a control (specify hand on wheel	8 on Stick		
а	nd control involved) Pialing a cellular phone (specify location and	B on stick not sure		
ty	ype of phone) lolding a cellular phone (specify location and			
	ype of phone) racing with one or both hands			
0	n lap			
	ne or both out of window (specify) other (specify)			
U	nknown	DATA CONTINUED ON		

-	OCCUPANT DATA	QUESTIONS (continue	ed)		
	DRIVER	occupant # 2	OCCUPANT #		
BACK UP AGAINST THE SEAT BACK?	[] No (describe) [Yes [] Unknown	[] No (describe) LYes [] Unknown	[] No (describe) [] Yes [Unknown		
ADJUSTABLE SEAT TRACK, IF "YES" WHERE WAS THE TRACK PRIOR TO IMPACT?	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and real position [] Seat all the way rearwar [] Unknown	[] Between forward and middle [] At middle position [] Between middle and rear position		
ADJUSTABLE SEAT BACK, IF "YES" WHERE WAS THE BACK PRE AND POST IMPACT	PRE POST [] [] Not adjustable [] [] Completely upright [X] Slightly reclined [] Completely reclined [] Slightly forward of upright [] Completely forward [] Unknown	PRE POST [] [] Not adjustable [] [] Completely upright [] Slightly reclined [] [] Completely recline [] Slightly forward of upright [] Completely forward [] Unknown	[] [] Slightly reclined d [] [] Completely reclined		
TILT STEERING COLUI ADJUSTMENT PRIOR TO IMPACT TELESCOPING STEERI	[] Center [] Full dow	Between cer			
COLUMN PRIOR TO IN		[] Between midpo	etween full back and midpoint int and full forward		
Did this vehicle have a cellular phone in it during the crash? [A No [] Yes - describe type:					
Was the driver doing any of the following? (check all that apply - and specify) Talking to or listening to another occupant (specify): Was there a moving object in vehicle (specify): Talking or listening on a cellular phone (specify): Dialing a cellular phone (specify): Adjusting climate control (specify): Adjusting radio, CD or cassette player (specify): Using other device or object in vehicle (specify): Sleepy / asleep (specify): Distracted by outside person, object, or event (specify): Eating or drinking (specify): Smoking related (specify): Other (specify): Unknown					

RE	STRAINT INFORM	ATION	PAGI
	DRIVER	OCCUPANT # 2	OCCUPANT # 3
TYPE OF SEAT BELT AVAILABLE NOTE: If a belt is not available for a seat position describe reason	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt	[] Unknown [] Lap belt [] Shoulder belt
DO BELTS MOVE ALONG A MOTORIZED TRACK FOR THIS SEAT? (i.e., 2 - point automatic belt)	[] Unknown [X] No [] Yes * —	[] Unknown [X] No [] Yes *	[] Unknown [] No [] Yes * N/A
* IF "YES", WERE THEY WORKING PROPERLY?	[] Yes [] No [,] (describe)	[] Yes [] No (describe)	[] Yes [] No (describe)
ARE ANY BELTS ATTACHED TO THE DOOR? (i.e., 3 - point automatic belt)	[] Unknown [X] No [] Yes *	[] Unknown [] No [] Yes *	[] Unknown [] No
* IF "YES", DOES IT CROSS:	Chest Lap Both	Chest Lap Both	Chest Lap Both
OCCUPANT WEARING ANY SEATBELT?	[] No [X] Yes [] Unknown	[]No [Ҳ∫Yes []Unknown	[] No [∕ Yes [] Unknown
SKIP THE FOLLOWIN	IG IF NO SE		AS WORN
TYPE OF BELT WORN?	[] Lap belt [] Shoulder belt [X] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [☑] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown
LAP BELT SITUATED?	[] Low on lap [] Across stomach [] Other (specify):	Low on lap Across stomach Other (specify):	[X] Low on lap [] Across stomach [] Other (specify):
SHOULDER BELT SITUATED?	Over shoulder Under the arm Behind back Behind seat Under (specify):	Over shoulder Under the arm Behind back Behind seat Other (specify):	[X] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):
Describe any breaks toors or failure to	[] Unknown	[] Unknown	[] Unknown
Describe any breaks, tears, or failures to a		belts	then
Attempted to an In	/	, , ,	

Attempted to open door but couldn't so I got out and went around to open work 119

EJECTION, ENTRAPMENT, MOBILITY INFORMATION					
ANY PART OF BODY THROWN OUTSIDE THE VEHICLE DURING THE CRASH?	DRIVER No Yes * Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	OCCUPANT # Z No Yes * Unknown If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	OCCUPANT # 3 [No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.		
ANYONE PINNED IN THE VEHICLE?	No No Nes No Nes Nes Nes Nes Nes Nes Nes Nes Nes Nes	[No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment	No Yes physically pinned jammed doors fire, etc. Unknown Detail any entrapment		
IOW DID OCCUPANT(S) EXIT THE VEHICLE?	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [X Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [X Exited under own power [] Fully ejected [] Unknown		
urther describe any ejectio low did occupant(s) depart he crash scene?	n, entrapment, or mobility Ambulance Police or Tow vehicle Relative (specify) Friend (specify) Other (specify)		I I Ambulance I I Police or Tow vehicle (Relative (specify) & RAY I Friend (specify) I Other (specify)		

	AIR BAG INFO	RMATION	
WAS THIS VEHICLE EVER EQU	JIPPED WITH AN AIR	R BAG?	
[X] YES (IF "YES" COM [NO [] UNKNOW!	PLETE THIS SECTION (IF "NO" OR	N) "UNKNOWN" SKIP 1	THIS SECTION)
	DRIVER SIDE FRONTAL	PASSENGER SIDE FRONTAL OCCUPANT #	"OTHER" AIR BAG SPECIFY: OCCUPANT #
VEHICLE BEEN IN ANY PREVIOUS CRASHES? I NO I YES - continue to right UNKNOWN - go to box below not that they Krow of	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least on deployment [] Previous accident(s) unknown if deployed IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED
TYPE OF AIR BAG?	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown
PRIOR SERVICE ON THE AIR BAG SYSTEM?	INO [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No []Unknown [] Yes - Specify:
OID AIR BAG INFLATE DURING THIS CRASH?	Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk
VAS THIS PERSON WEARING INY TYPE OF EYE-WEAR (EYE/ UNGLASSES OR CONTACT ENSES) ANY JEWELRY, OR IAVE ANY OBJECTS IN MOUTH IR HAND?	No [] Unknown [] Yes - Specify:	No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:
	No [] Unknown [] Yes - Specify:		[] No
escribe any additional information	on here:		

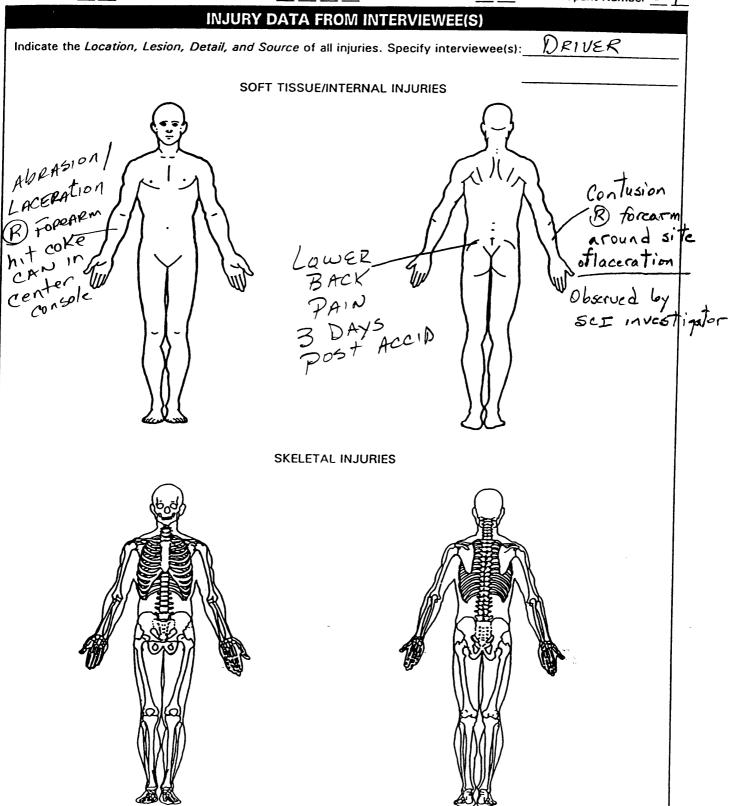
CHILD SAFETY SEAT INFORMATION							
WAS THERE A PERSON IN A CHILD SAFETY SEAT IN THIS VEHICLE?							
[] YES (IF "YES" COMPLETE THIS SECTION)							
[X] NO [] UNKNOWN (IF "NO" OR "UNKNOWN" SKIP THIS SECTION)							
	DRIVER	OCCUPANT #	OCCUPANT #				
MAKE AND MODEL OF THE SAFETY SEAT?							
TYPE OF SEAT?		[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:				
DIRECTION FACING PRIOR TO THE CRASH?		[] Front [] Rearward [] Unknown	[] Front [] Rearward [] Unknown				
VEHICLE'S SEAT BELT USED TO HOLD THE SEAT IN PLACE?	 	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown				
HOW WAS THE VEHICLE'S SEAT BELT SECURED TO THE CHILD SEAT?		outside the designated framing struts Other (specify):	Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify):				
WHAT WAS THE CHILD SEAT EQUIPPED WITH AT TIME OF PURCHASE?	1 1 1	Harness Shield Tether Unknown	[] Harness [] Shield [] Tether [] Unknown				
ANY OF THESE ADDED AFTER THEY OWNED THE SAFETY SEAT?		Harness Shield Tether None Unknown	[] Harness [] Shield [] Tether [] None [] Unknown				
Describe any additional information here: when I opened door he was leaning to left Head furned to Left.							

	INJURY INF		
	DRIVER	OCCUPANT # 2	OCCUPANT # 3
WERE YOU INJURED? ► If "YES" go to manikin page and record injuries in detail ► If "NO" ask next questions	No Yes Unknown	No X Yes Unknown	No I Yes I Unknown
DID YOU HAVE ANY OF THE FOLLOWING: (If any injuries are checked, go to the manikin page and record location, lesion, and source)	Cuts Abrasions Suises Suises Abrasions Abrasio	Cuts Abrasions Bruises Broken bones Head, skull, brain Internal injury Sprains, strains Other - specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other - specify on manikin
TRANSPORTED DIRECTLY FROM ACCIDENT SCENE FOR TREATMENT?	No I Yes Unknown	[] No [☑] Yes [] Unknown	[] No [] Yes [] Unknown
RECEIVE ANY MEDICAL TREATMENT? (check all that apply)	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown
HOSPITALIZED?	No See - # of days See - # of days See - # of days	[] No [] Yes - # of days [] Unknown	[] No [] Yes - # of days [] Unknown
TREATED AND RELEASED FROM THE EMERGENCY ROOM?	No I Yes Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
NAME OF MEDICAL TREATMENT FACILITY?			
RECEIVE ANY FOLLOW-UP TREATMENT?	No Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:
	[] Unknown	[] Unknown	[] Unknown
OST ANY DAYS FROM WORK OR SCHOOL COLLEGE) DUE TO THE CRASH?	No Not working prior to crash Yes - # of days	Not working prior to crash Yes - # of days	No Not working prior to crash Yes - # of days Unknown
IF REQUIRED:	[] No	∖ No	[] No
VILL YOU SIGN A MEDICAL RELEASE?	[Yes* [Unknown	XI Yes*	[] Yes*
* If not an in-person interview, make appointment to have release signed	TIME:	DATE: TIME: PLACE:	DATE: TIME: PLACE:
			· CAUE.

PSU Number / O

Case Number—Stratum 9625 Vehicle Number 01

Occupant Number 6



The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s)

National Accident Sampling System-Crashworthiness Data System: Interview Form

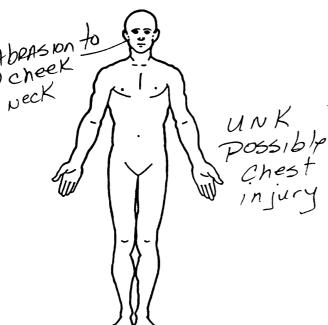
Page 9

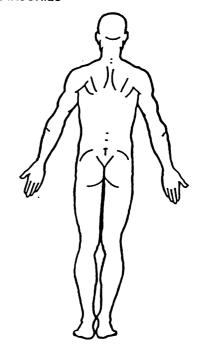
PSU Number 10 Case Number-Stratum 9625 Vehicle Number 01 Occupant Number 02

INJURY DATA FROM INTERVIEWEE(S)

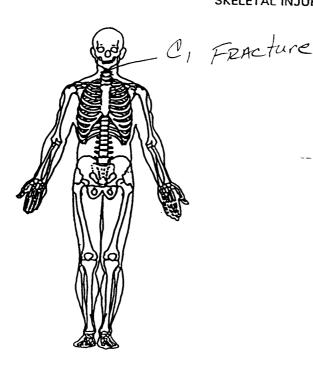
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): MOTHER DEIVER

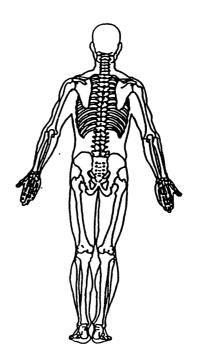
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





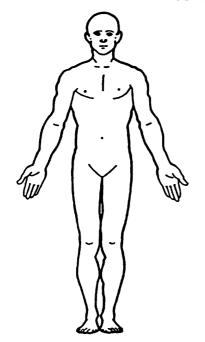
The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s)

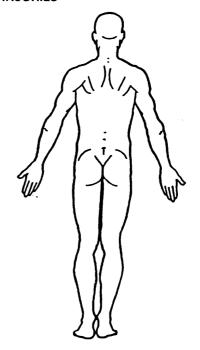
Case Number—Stratum 9625 Vehicle Number 01 Occupant Number 03

INJURY DATA FROM INTERVIEWEE(S)

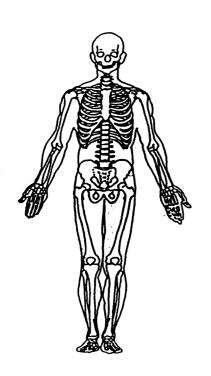
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): MOTHER/DRIVER

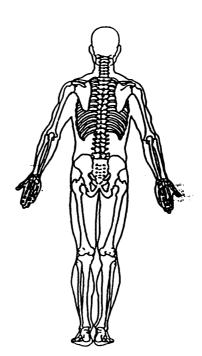
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





The space provided on the back of this page may be used to further detail injuries noted by the interviewee(s).

NASS CDS INTERVIEW FORM: VEHICLE #2 DRIVER

INTERVIEW FORM (A)

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number / O Interviewee(s) Role	
2. Case Number - Stratum 9625 $D7$	IVER
3. Vehicle Number	
Review all available information and interview questions prior to conacquisition of all pertinent data.	ducting interview(s) to ensure the
If the driver was not the person interviewed, was an appointment m	ade for a follow-up interview?
DRIVER'S DESCRIPTION OF ACCID	ENTEVENTS
by going into Oturn 1 hea B Front w/ my O Approached Pear to abscr I observed drive, getting	FRV mirror . I It looked like ASSENGER. When led to dodge as Ane She Struck PEAN Igot out
My wife à driver vent to-	DASS Side And mother
opened doop	3 ,, 3 , 7
OCCUPANT'S DESCRIPTION OF ACCID	
Right before impact I	SAW Child
Moving FORWARD hit WS CAME Out.	then bag
O/CF	
SPECIFIC QUESTIONS TO ASK INT	FRVIEWEE
How was child positioned in	CAR?
Child laying to left over cent	er console
AIR bag on his face	
How was child positioned in Child laying to left over cent AIR bag on his face Did you notice loe't? I didn't I didn't	look for it and

ACCIDENT DIAGRAM				
		Use this diagram to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.		
		NORTH		
	•			
				•
	-			-
				orga n s.
				1

CRASH DATA INFORMATION			
IF POSSIBLE O	BTAIN THIS INFORMATION FROM THE DRIVER:		
SOURCE OF INFORMATION:	[X Driver [] Other occupant [] Relative/friend		
TRAVEL DIRECTION?	[] North [] South [] East [West (Or where were they coming from or going to?)		
LANE?	Note: lane 1 is the right curb lane		
ROAD CONDITION?	[Dry [] Wet [] Snow [] Slush [] Ice [] Sand, dirt, oil [] Other (specify)		
WEATHER CONDITIONS? (Check all that apply)	No adverse conditions [] Rain [] Fog _ [] Sleet [] Hail [] Snow [] Other (specify)		
	Traffic control signal (includes flashing beacons, lane control signals, and green / amber / red signal)		
SIGN OR SIGNAL PRESENT?	[] Stop sign [] Yield sign [] School zone sign		
(check all that apply)	[] Other regulatory sign (No "U" turn, left turn only, wrong way, etc.) specify:		
	[] Warning sign (Winding road sign, stop ahead, intersection signs, etc.) specify:		
	[] Miscellaneous control (including railroad controls) specify:		
WAS THE CONTROL FUNCTIONING PROPERLY?	No traffic control device present Not functioning properly (includes defaced, badly worn, covered with snow, rotated etc.) specify: Functioning properly Unknown		
SPEED BEFORE THE IMPACT? (in mph)	[Stopped [11-20 [31-40 [51-60 [70+ [1-10 [21-30 [41-50 [61-70 [Unknown		
BEFORE IMPACT, INTENDING TO ? (check all that apply)	Go straight [] Stopped [] Turn left [] Turn right [] Slow down [] Accelerate [] Back up [] Change lanes to right [] Other (specify): [] Change lanes to left		
CONTROL LOSS DUE TO WEATHER OR MECHANICAL PROBLEMS?	No [] Unknown [] Yes (describe)		
AVOIDANCE ACTIONS?	None [] Braking with lock-up [] Accelerating [] Unknown [] Braking without lock-up [] Steering left [] Other- specify: [] Releasing brakes [] Steering right		
LOCATION OF VEHICLE AT TIME OF IMPACT?	Original travel lane [] Different travel lane [] In intersection [] Off roadway to left [] Other (specify):		
SPEED AT THE TIME OF IMPACT? (in mph)	Stopped [] 11-20 [] 31-40 [] 51-60 [] 70+ [] 1-10 [] 21-30 [] 41-50 [] 61-70 [] Unknown		
DESCRIBE ALL THE IMPACTS to the vehicle and how this vehicle moved to its stopped position, after the collision?			

	ROLLOVER DATA
DID THIS VEHICLE ROLL OVER (NIRING THE CRASHS
DID THIS VEHICLE HOLE OVER E	
[] YES ASK THE FOLLOWING Q	UESTIONS NO SKIP TO "FIRE DATA" BELOW UNKNOWN SKIP TO "FIRE DATA" BELOW
ROLLOVER BEGAN	[] On roadway [] On shoulder [] On roadside or median [] Unknown
ROLLOVER CAUSE?	[] Other vehicle (specify vehicle number) [] Contact to object (specify): [] Other cause (specify): [] Unknown
DIRECTION OF VEHICLE ROLL?	[] Toward the right (passenger side) [] Toward the left (driver side) [] End-over-end [] Unknown
NUMBER OF TURNS	Number of QUARTER TURNS [] Unknown
	Number of COMPLETE TURNS
PLANE IN CONTACT WITH GROUND AT FINAL REST?	[] Left side [] Top [] Right side [] Wheels [] Unknown
	FIRE DATA
DID THIS VEHICLE EXPERIENCE A	A FIRE?
[] YES ASK THE FOLLOWING Q	UESTIONS NO SKIP THIS SECTION UNKNOWN SKIP THIS SECTION
FIRE STARTED, OR SMOKE VAS FIRST SEEN	[] Under the hood [] In the trunk/cargo area [] Behind the instrument panel [] Under the vehicle [] In the passenger compartment [] From other involved vehicle [] Unknown
IRE START WITH THE ELECTRICAL SYSTEM?] No { } Unknown	[] Yes (specify):
IRE START WITH THE FUEL	[] Yes specify Which part of the fuel system may have been involved?
No Unknown	
	fire information beautiful
escribe any additional rollover or	
escribe any additional rollover or	ine information nere:

ADD	ITIONAL VEHICLE INFORMATION
YEAR, MAKE AND MODEL?	Year: 19 9 1 Make: FORD Model: EXPLORER XL
PREVIOUS OR POST-CRASH DAMAGE?	[] Unknown
DOORS OR HATCH OPEN DURING THE CRASH?	No LF RF LR RR HATCH Unknown
WINDOWS BREAK DURING THE CRASH?	No Check all that apply [] Yes [] WS [] LF [] RF [] LR [] RR [] BL [] Roof [] Other
	[] Unknown
WINDOW PRECRASH STATUS	### ##################################
	"P" = partially open "U" = Unknown
GLOVE COMPARTMENT DOOR OPEN DURING THE CRASH?	I Yes - describe:
CARGO IN THE VEHICLE?	[] No [] Unknown [] Yes - describe: Stroller, Diaper bag Approximate weight - 10 pounds 4,5 kg -> 5
VEHICLE MILEAGE	
VEHICLE MILLAGE	miles [X] Unknown
F VEHICLE HAS NOT BEEN NSPECTED	Current location of the vehicle:
	Contact person:
Detail any notes, questions to ask in irections to vehicle location:	nterviewee (i.e., rescue personnel damage to vehicle) or

SPECIAL CRASH IN	VESTIGATION ADDENDUM: DRIVER INFORMATION
Do you recall the type of development in the area of the crash?	[] Residential
What were the weather conditions at the time of the crash?	Clear (no clouds, no precipitation) Cloudy (partially cloudy, no precipitation) Overcast (full cloud cover, no precipitation) Precipitating Unknown
What was the type of pre- cipitation?	No precipitation [] Unknown [] Raining [] Freezing rain [] Sleeting [] Snowing [] Hailing
What was the condition of the road surface?	Dry [] Wet [] Snowy, slushy [] Icy [] Other (e.g., sand, dirt, oil on surface, etc.) [] Unknown
How would you describe the amount of traffic at the time of the crash?	[] Heavy [] Moderate [] No other traffic present
What is your occupation?	[] Professional [] Technical [] Government official [] Management [] Proprietors [] Sales [] Clerical [] Craftsman and foreman [] Service worker [] Student [] Shepiff [] Farmers and farm-managers [] Farm labors and foreman [] Private household worker [] Housewife [] Other:
How long have you driven this vehicle? How many miles do you	Years: Months:
think that you have driven it in the last 12-month period?	Miles: 3000 _ ERRAND VEH.
How often do you drive this particular roadway?	Daily [] Twice weekly [] Once weekly [] Twice monthly [] Once monthly [] Very infrequently [] First time on road
Where were you coming from just prior to the crash?	Home [] Work [] School [] Shopping [] Social/recreational [] Restaurant [] Personal business [] Other:
Where were you intending to go when the crash occurred?	[] Home [] Work [] School

	OCCUPANT DATA QUESTIONS				
	HOW MANY PEOPLE WERE IN THE VEHICLE AT THE TIME OF THE CRASH?				
		DRIVER	OCCUPANT # 7	OCCUPANT # 3	
	SEATING POSITION? Front Left (FL) Second Left (2L) Front Middle (FM) Second Middle (2M) Front Right (FR) Second Right (2R) Third Left (3L) Other (SPECIFY in block) Third Middle (3M) Third Right (3R)	FRONT LEFT	FR	24	
d	SEX, HEIGHT, WEIGHT, AND AGE? CIRCLE DRIVER'S RACE: So 3	[] F - Not pregnant [] F - Pregnant - # of months [] F - Unk. if pregnant HEIGHT:	I M I F - Not pregnant I F - Pregnant - # of months I F - Unk. if pregnant HEIGHT: WEIGHT:	M [] F - Not pregnant [] F - Pregnant - # of months [] F - Unk. if pregnant] 12 AHEIGHT: 5911	
0	skimo or Aleut Asian or Pacific Islander other (specify):	DRIVER OF HISPANIC ORIGIN?	AGE: 4D	AGE: 73	
(A) (B) (C) (D) (E) (F) (G) (H)	Lying on or across seat Kneeling, standing or sitting in front of seat Sitting sideways, turned to side or back Sitting on console Lying back in reclined position	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	
L(EET AND HANDS/ARMS DCATION JST PRIOR TO IMPACT	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	
A) B) C) D) E)	FEET On floor or foot controls One or both on dash One or both on seat Other (specify) Unknown	Don beake	<u>(A)</u>		
F) G) H) I) K)	HANDS / ARMS Both hands on steering wheel One on wheel, other hand resting or adjusting a control (specify hand on wheel and control involved) Dialing a cellular phone (specify location and type of phone) Holding a cellular phone (specify location and type of phone) Bracing with one or both hands On lap	E	on LAP UNIC	urk	
L) M) N)	One or both out of window (specify) Other (specify) Unknown	ATA CONTINUED ON	VICAT DAOS		

•	OCCUPANT DATA	QUESTIONS (continued)		
	DRIVER	OCCUPANT # 2	OCCUPANT # 3	
BACK UP AGAINST THE SEAT BACK?	[X] No (describe) [] Yes [] Unknown	No (describe) [] Yes [] Unknown	No (describe) [] Yes [] Unknown	
ADJUSTABLE SEAT TRACK, IF "YES" WHERE WAS THE TRACK PRIOR TO IMPACT?	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown	Not adjustable Seat all the way forward Between forward and middle At middle position Between middle and rear position Seat all the way rearward Unknown	Not adjustable Seat all the way forward Between forward and middle At middle position Between middle and rear position Seat all the way rearward Unknown	
ADJUSTABLE SEAT BACK, IF "YES" WHERE WAS THE BACK PRE AND POST IMPACT	PRE POST [] [] Not adjustable [X] [] Completely upright [] [] Slightly reclined [] [] Completely reclined [] Slightly forward of upright [] Completely forward [] [] Unknown	PRE POST [] [] Not adjustable [] [] Completely upright [] [] Slightly reclined [] [] Completely reclined [] Slightly forward of upright [] Completely forward [] Unknown	PRE POST Not adjustable I Completely upright I Slightly reclined I Completely reclined I Slightly forward of upright I Completely forward I Unknown	
TILT STEERING COLUMN ADJUSTMENT PRIOR TO IMPACT [] Not adjustable [X] Full up [] Between full up and center [] Between center and full down [] Full down [] Unknown				
TELESCOPING STEERING COLUMN PRIOR TO IMPACT Not adjustable [] Full back [] Between full back and midpoint [] Between midpoint and full forward [] Full forward [] Unknown				
Did this vehicle have a cellular phone in it during the crash? No Yes - describe type: (e.g., portable, mounted in vehicle, flip phone, etc.) Unknown (Note to researcher: try to determine any driver distractions without implying fault) Was the driver doing any of the following? (check all that apply - and specify)				
 Was there a moving Talking or listening Dialing a cellular pho Adjusting climate co Adjusting radio, CD Using other device o Sleepy / asleep (specific parts) 	ng to another occupant (specify): on a cellular phone (specify): one (specify): ontrol (specify): or cassette player (specify): or object in vehicle (specify): ecify): le person, object, or event (specify):	ify): MID 25" 23165 5 mo	_	

RES	STRAINT INFORMA	ATION	
	DRIVER	OCCUPANT # 2	OCCUPANT # 3
TYPE OF SEAT BELT AVAILABLE NOTE: If a belt is not available for a seat position describe reason	[] Unknown [] Lap belt [] Shoulder belt [X] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [☑ Lap & Shoulder [] Not available * * Describe:
DO BELTS MOVE ALONG A MOTORIZED TRACK FOR THIS SEAT? (i.e., 2 - point automatic belt)	[] Unknown [X] No [] Yes •	[] Unknown [] No [] Yes *	[] Unknown [] No [] Yes * WA
* IF TYES", WERE THEY WORKING PROPERLY?	[] Yes [] No (describe)	[] Yes [] No (describe)	[] Yes [] No (describe)
ARE ANY BELTS ATTACHED TO THE DOOR? Tile:, 3 - point automatic belt)	[] Unknown [X] No [] Yes •	[] Uaknown [V] No [] Yes •	[] Unknown [] No [] Yes • W/A
* IF "YES", DOES IT CROSS:	Chest Lap Both	Chest Lap Both	Chest Lap Both
OCCUPANT WEARING ANY SEATBELT?	[] No [X] Yes [] Unknown	[] No ☑ Yes [] Unknown	[] No [] Yes [] Unknown
SKIP THE FOLLOWIN	G IF NO SE	AT BELT W	AS WORN
TYPE OF BELT WORN?	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [本] Lap & Shoulder [] Unknown
LAP BELT SITUATED?	Low on lap I Across stomach Other (specify): Unknown	Low on lap Across stomach Other (specify): Unknown	Low on lap Across stomach Other (specify):
SHOULDER BELT SITUATED?	[X] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):	[X] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):	[X] Over shoulder [] Under the arm [] Behind back [] Behind seat [] Other (specify):
Describe any breaks, tears, or failures to a		() Outhown	() OHAHOWII

EJECTION, ENTRAPMENT, MOBILITY INFORMATION				
	DRIVER	OCCUPANT # 2	OCCUPANT #	
ANY PART OF BODY THROWN OUTSIDE THE VEHICLE DURING THE CRASH?	No Yes * Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	[No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	
ANYONE PINNED IN THE VEHICLE?	No No No No No No No No No No No No No N	[X No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment	[X] No [] Yes physically pinned jammed doors fire, etc. [] Unknown Detail any entrapment	
HOW DID OCCUPANT(S) EXIT THE VEHICLE?	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [X Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance Exited under own power [] Fully ejected [] Unknown	
Further describe any ejection How did occupant(s) depart the crash scene?	n, entrapment, or mobility { Ambulance	information here: [] Ambulance [] Police or Tow vehicle [] Relative (specify) [] Friend (specify) [] Other (specify)	[Ambulance [Police or Tow vehicle [Relative (specify) [Friend (specify) [Other (specify)	

	AIR BAG INFO	RMATION	
WAS THIS VEHICLE EVER EQ			
[] YES (IF "YES" CON	IPLETE THIS SECTION (IF "NO" OR	N) "UNKNOWN" SKIP	THIS SECTION)
	DRIVER SIDE FRONTAL	PASSENGER SIDE FRONTAL OCCUPANT #	"OTHER" AIR BAG SPECIFY: OCCUPANT #
VEHICLE BEEN IN ANY PREVIOUS CRASHES? [] NO [] YES - continue to right [] UNKNOWN - go to box below	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed	deployment [] > 1, with at least one deployment [] Previous accident(s)	deployment [] > 1, with at least or deployment [] Previous accident(s)
	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED
TYPE OF AIR BAG?	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown
PRIOR SERVICE ON THE AIR BAG SYSTEM?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No []Unknown [] Yes - Specify:
OID AIR BAG INFLATE DURING THIS CRASH?	[] Yes []Unknown [] No If "NO" was the wiring disconnected_ prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk
VAS THIS PERSON WEARING INY TYPE OF EYE-WEAR (EYE/ UNGLASSES OR CONTACT ENSES) ANY JEWELRY, OR AVE ANY OBJECTS IN MOUTH R HAND?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:
DSITION CONTACTED BY		[No Unknown Yes - Specify:	[] No

	CHILD SA	FETY SEAT INFORMATI	ON	
WAS THERE A PERSON IN A CHILD SAFETY SEAT IN THIS VEHICLE?				
[] YES (IF "	YES" COMPLE	TE THIS SECTION)		
[X] NO [] UNK	NOWN (IF "	NO" OR "UNKNOWN" SK	IP THIS SECTION)	
	DRIVER	OCCUPANT #	OCCUPANT #	
MAKE AND MODEL OF THE SAFETY SEAT?				
TYPE OF SEAT?	[]	Toddler Convertible Booster	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	
DIRECTION FACING PRIOR TO THE CRASH?	[] []	Front Rearward Unknown	[] Front [] Rearward [] Unknown	
VEHICLE'S SEAT BELT USED TO HOLD THE SEAT IN PLACE?	[] [] []	No Yes Unknown	[] No [] Yes [] Unknown	
HOW WAS THE VEHICLE'S SEAT BELT SECURED TO THE CHILD SEAT?		Looped through designated rear framing studs Looped through arm rest slots Belt across safety shield Looped through rear frame outside the designated framing struts Other (specify):	[] Looped through designated rear framing studs [] Looped through arm rest slots [] Belt across safety shield [] Looped through rear frame outside the designated framing struts [] Other (specify):	
WHAT WAS THE CHILD SEAT EQUIPPED WITH AT TIME OF PURCHASE?	[] [] [] []	Unknown Harness Shield Tether Unknown	[] Unknown [] Harness [] Shield [] Tether [] Unknown	
ANY OF THESE ADDED AFTER THEY OWNED THE SAFETY SEAT?	[] [] [] []	Harness Shield Tether None Unknown	[] Harness [] Shield [] Tether [] None [] Unknown	
Describe any additional information here:				

	INJURY INFO	ORMATION	
	DRIVER	OCCUPANT # 2	OCCUPANT # 3
WERE YOU INJURED? ► If "YES" go to manikin page and record injuries in detail ► If "NO" ask next questions	[₹] No [Yes [] Unknown	No Yes Unknown	No I Yes I Unknown
DID YOU HAVE ANY OF THE FOLLOWING: (If any injuries are checked, go to the manikin page and record location, lesion, and source)	[] Other - specify on manikin	manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other - specify on manikin
TRANSPORTED DIRECTLY FROM ACCIDENT SCENE FOR TREATMENT?	[No [] Yes [] Unknown	[A] No [] Yes [] Unknown	[No [] Yes [] Unknown
RECEIVE ANY MEDICAL TREATMENT? (check all that apply)	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown
HOSPITALIZED?	[No Yes - # of days	No Yes - # of days Unknown	No Yes - # of days Unknown
TREATED AND RELEASED FROM THE EMERGENCY ROOM?	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
NAME OF MEDICAL TREATMENT FACILITY?			
RECEIVE ANY FOLLOW-UP TREATMENT?	No Yes - describe any additional injuries diagnosed:	No Yes - describe any additional injuries diagnosed:	No Solution No Sol
	[] Unknown	[] Unknown	[] Unknown
LOST ANY DAYS FROM WORK OR SCHOOL COLLEGE) DUE TO THE CRASH?	No Not working prior to crash Yes - # of days Unknown	No Not working prior to crash Yes - # of days Unknown	No Not working prior to crash Section 1 Yes - # of days Unknown
IF REQUIRED:	[No	[] No	[] No
VILL YOU SIGN A MEDICAL RELEASE?	[Yes* [Unknown	{ Yes* { Unknown	[] Yes* [] Unknown
* If not an in-person interview, make appointment to have release signed	TIME:	DATE: TIME: PLACE:	TIME:
		. 5301.	PLACE:

PSU Number / O

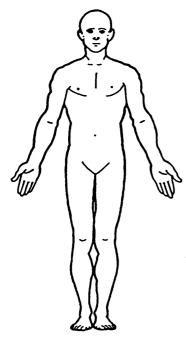
Case Number-Stratum 9625 Vehicle Number 02

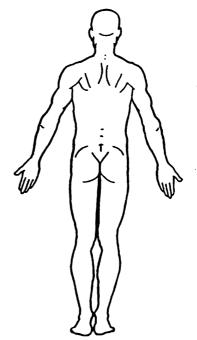
Occupant Number **2**

INJURY DATA FROM INTERVIEWEE(S)

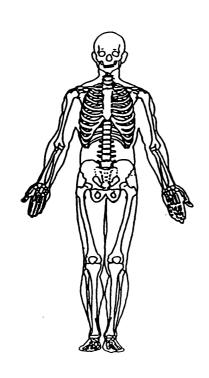
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

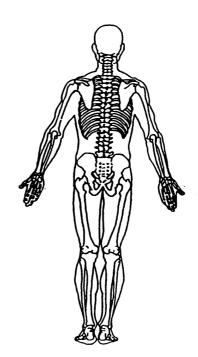
SOFT TISSUE/INTERNAL INJURIES



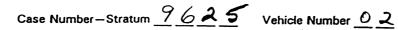


SKELETAL INJURIES





PSU Number \angle O

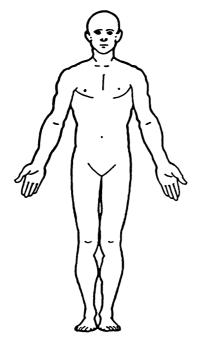


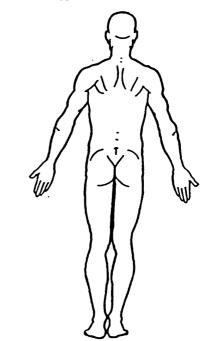
Occupant Number <u>O</u> <u>2</u>

INJURY DATA FROM INTERVIEWEE(S)

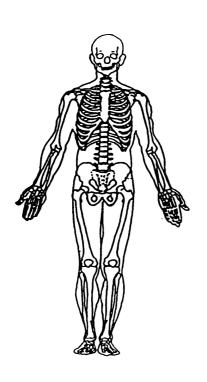
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

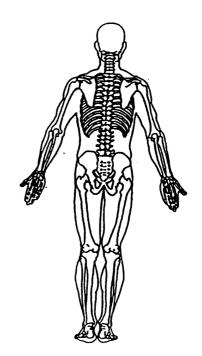
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





PSU Number / 🔿

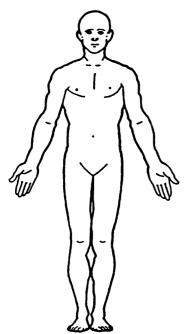


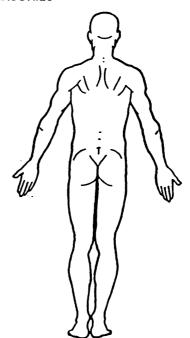
Occupant Number 03

INJURY DATA FROM INTERVIEWEE(S)

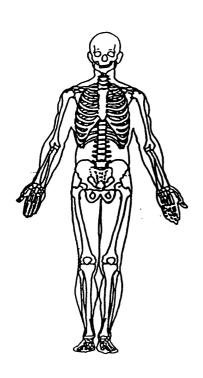
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

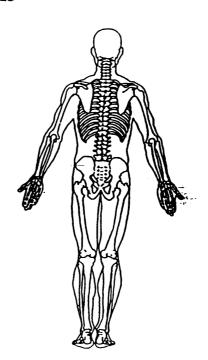
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





U.S. Department of Transportation

OCCUPANT DATA OLIESTIONS

EM EM

	SUPPLEMENT FO	DAM NATIONA	LL ACCIDENT SAMPLING SYS ASHWORTHINESS DATA SYS
1. Primary Sampling Unit Number / 2. Case Number - Stratum 9 6 2		Role or Name(s):	
3. Vehicle Number	Phone number:	:	
occ	UPANT DATA QUE	ESTIONS	
	OCCUPANT # 4	OCCUPANT # 5	OCCUPANT #
SEATING POSITION? Front Left (FL) Second Left (2L) Front Middle (FM) Second Middle (2M) Front Right (FR) Second Right (2R)	2 M	aR	
Third Left (3L) Other (SPECIFY in block) Third Middle (3M) Third Right (3R)			
SEX, HEIGHT, WEIGHT, AND AGE?		M X F · Not pregnant F · Pregnant · # of months I F · Unk. if pregnant HEIGHT: 67 WEIGHT 123 S	[] M [] F - Not pregnant [] F - Pregnant - # of months [] F - nk. if pregnant 70. 2 HEIGHT: \$, \$ WEIGHT:
OCCUPANT POSTURE A) Kneeling or standing on seat B) Lying on or across seat C) Kneeling, standing or sitting in front of seat D) Sitting sideways, turned to side or back E) Sitting on console F) Lying back in reclined position G) Other (specify) H Unknown	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above / N Child SARCHY SCAT	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above	[] Leaning to left [] Leaning to right [] Sitting upright [] Unknown Indicate all letters that apply and describe if other than above
Describe any additional information here:			

OCCL	IPANT DATA QUES	TIONS (continued)	
	OCCUPANT # 4	OCCUPANT # 5	OCCUPANT#
FEET AND HANDS/ARMS LOCATION JUST PRIOR TO IMPACT	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed	Indicate all letters that apply and further describe as needed
FEET A) On floor or foot controls B) One or both on dash C) One or both on seat D) Other (specify) E) Unknown	Harging	A A	
HANDS / ARMS F) Both hands on steering wheel G) One on wheel, other hand resting or adjusting a control (specify hand on wheel and control involved) H) Dialing a cellular phone (specify location and type of phone) I) Holding a cellular phone (specify location and type of phone) J) Bracing with one or both hands K) On lap L) One or both out of window (specify) M) Other (specify) N) Unknown	B	W K	
BACK UP AGAINST THE SEAT BACK?	[]No(describe) ☑️Yes []Unknown	[] No (describe) ATYes [] Unknown	[] No (describe) [] Yes [] Unknown
ADJUSTABLE SEAT <u>TRACK</u> , IF "YES" WHERE WAS THE TRACK PRIOR TO IMPACT?	Not adjustable Seat all the way forward Between forward and middle At middle position Between middle and rear position Seat all the way rearward Unknown	rearward	[] Not adjustable [] Seat all the way forward [] Between forward and middle [] At middle position [] Between middle and rear position [] Seat all the way rearward [] Unknown
ADJUSTABLE SEAT <i>BACK,</i> IF "YES" WHERE WAS THE <i>BACK</i> PRE AND POST IMPACT	PRE POST Not adjustable Completely upright Slightly reclined Completely reclined Slightly forward of upright Completely forward Completely forward Unknown	Not adjustable Completely upright Slightly reclined Completely reclined Slightly forward of upright Completely forward	PRE POST [] [] Not adjustable [] [] Completely upright [] [] Slightly reclined [] [] Completely reclined [] Slightly forward of upright [] Completely forward [] Completely

RESTRAINT INFORMATION				
	OCCUPANT # 4	OCCUPANT # 5	OCCUPANT #	
TYPE OF SEAT BELT AVAILABLE NOTE: If a belt is not available for a seat position describe reason	[] Unknown Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available *	[] Unknown [] Lap belt [] Shoulder belt [] Lap & Shoulder [] Not available * * Describe:	
DO BELTS MOVE ALONG A MOTORIZED TRACK FOR THIS SEAT? (i.e., 2 - point automatic belt)	[] Unknown [] No [] Yes •	Unknown Yes	[] Unknown [] No [] Yes *	
* IF "YES", WERE THEY WORKING PROPERLY?	[] Yes [] No (describe):	[] Yes [] No (describe):	[] Yes [] No (describe):	
DO ANY OF THE BELTS ATTACH TO THE DOOR? (i.e., 3 - point automatic belt)	[] Unknown [] No [] Yes *	[] Unknown [∡ No [] Yes •	[] Unknown [] No [] Yes *	
* IF "YES", DOES IT CROSS:	Chest Lap Both	Chest Lap Both	Chest Lap Both	
OCCUPANT WEARING ANY SEATBELT?	[] No Yes [] Unknown	[] No ☑ Yes [] Unknown	[] No [] Yes [] Unknown	
SKIP THE FOLLOWING	IF NO SEA	T BELT WA	S WORN	
TYPE OF BELT WORN?	Lap belt Shoulder belt Lap & Shoulder Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	[] Lap belt [] Shoulder belt [] Lap & Shoulder [] Unknown	
LAP BELT SITUATED?	[] Low on lap [] Across stomach [] Other (specify): Theough CAL SCAT	Across stomach Definition of the control of the con	[] Low on lap [] Across stomach [] Other (specify):	
SHOULDER BELT SITUATED?		Over shoulder Under the arm Behind back Behind seat	Unknown Over shoulder Under the arm Behind back Behind seat Other (specify):	
Describe any breaks, tears, or failures to any o	of the seat belts:			

	OCCUPANT # 4	OCCUPANT # 5	OCCUPANT #
ANY PART OF BODY THROWN OUTSIDE THE VEHICLE DURING THE CRASH?	No Yes * Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	No Yes * Unknown If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.	[] No [] Yes * [] Unknown * If "Yes" - what part(s) were ejected, and what area of the vehicle was involved.
ANYONE PINNED IN THE VEHICLE?	No Yes physically pinned jammed doors fire, etc. Unknown Detail any entrapment	No Yes physically pinned jammed doors fire, etc. Unknown Detail any entrapment	[] No [] Yesphysically pinnedjammed doorsfire, etc. [] Unknown Detail any entrapment
IOW DID OCCUPANT(S) EXIT THE 'EHICLE?		[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [XI Exited under own power [] Fully ejected [] Unknown	[] Fatal before removed [] Removed while unconscious, or not oriented to time or place [] Removed due to perceived serious injuries [] Exited with some assistance [] Exited under own power [] Fully ejected [] Unknown

,	AIR BAG INFOR	RMATION	
WAS THIS VEHICLE EVER EQU	JIPPED WITH AN AIR	BAG?	
	PLETE THIS SECTION	1)	
[X] NO [] UNKNOWN	(IF "NO" OR	"UNKNOWN" SKIP T	HIS SECTION)
	OCCUPANT #	OCCUPANT #	OCCUPANT #
	"OTHER" AIR BAG SPECIFY:	"OTHER" AIR BAG- SPECIFY:	"OTHER" AIR BAG SPECIFY:
VEHICLE BEEN IN ANY PREVIOUS CRASHES? [] NO [] YES - continue to right [] UNKNOWN - go to box below	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed	[] Prior crash without deployment [] One prior crash with deployment [] > 1, with at least one deployment [] Previous accident(s) unknown if deployed
	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED	IF PRIOR DEPLOYMENT [] CHECK IF NOT REINSTALLED
TYPE OF AIR BAG?	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown	[] Original equipment [] Retrofitted [] Replacement [] Unknown
PRIOR SERVICE ON THE AIR BAG SYSTEM?	[] No	[] No [] Unknown [] Yes - Specify:	[] No []Unknown [] Yes - Specify:
DID AIR BAG INFLATE DURING THIS CRASH?	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk	[] Yes []Unknown [] No If "NO" was the wiring disconnected prior to the crash? [] Yes [] No [] Unk
WAS THIS PERSON WEARING ANY TYPE OF EYE-WEAR (EYE/ SUNGLASSES OR CONTACT LENSES) ANY JEWELRY, OR HAVE ANY OBJECTS IN MOUTH OR HAND?	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:	[] No [] Unknown [] Yes - Specify:
OCITION CONTRACTOR DV			[] No
escribe any additional informatio	n here:	<u>l</u>	

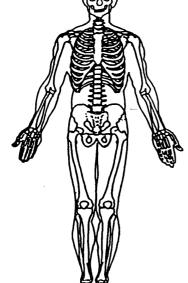
[] NO [] UNKN	OWN (IF "NO" OR	"UNKNOWN" SKIP TH	IS SECTION)
	OCCUPANT # 4	OCCUPANT #	OCCUPANT #
MAKE AND MODEL OF THE SAFETY SEAT?	EVENFLO JOYRIDE W/ BASE	,	
TYPE OF SEAT?	Infant I Toddler I Convertible I Booster I Integral I Other Specify:	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:	[] Infant [] Toddler [] Convertible [] Booster [] Integral [] Other Specify:
DIRECTION FACING PRIOR TO THE CRASH?	[X] Front [] Rearward [] Unknown	[] Front [] Rearward [] Unknown	[] Front [] Rearward [] Unknown
VEHICLE'S SEAT BELT USED TO HOLD THE SEAT IN PLACE?	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown	[] No [] Yes [] Unknown
HOW WAS THE VEHICLE'S SEAT BELT SECURED TO THE CHILD SEAT?	Looped through designated rear framing studs [] Looped through arm rest slots [] Belt across safety shield [] Looped through rear frame outside the designated framing struts [] Other (specify): [] Unknown	[] Looped through designated rear framing studs [] Looped through arm rest slots [] Belt across safety shield [] Looped through rear frame outside the designated framing struts [] Other (specify):	[] Looped through designated rear framing studs [] Looped through arm rest slots [] Belt across safety shield [] Looped through rear frame outside the designated framing struts [] Other (specify):
WHAT WAS THE CHILD SEAT EQUIPPED WITH AT TIME OF PURCHASE?	Harness Shield Tether Unknown	[] Harness [] Shield [] Tether [] Unknown	[] Harness [] Shield [] Tether [] Unknown
ANY OF THESE ADDED AFTER THEY OWNED THE SAFETY SEAT?	[] Harness [] Shield [] Tether ☑ None [] Unknown	[] Harness [] Shield [] Tether [] None [] Unknown	[] Harness [] Shield [] Tether [] None [] Unknown

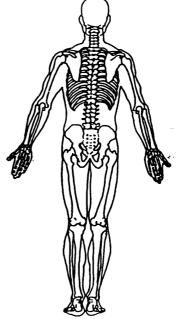
	INJURY INFO	ORMATION	
	OCCUPANT # 4	OCCUPANT # 5	OCCUPANT #
WERE YOU INJURED? • If "YES" go to manikin page and record injuries in detail • If "NO" ask next questions	No [] Yes [] Unknown	No Yes Unknown	[] No [] Yes [] Unknown
DID YOU HAVE ANY OF THE FOLLOWING: (If any injuries are checked, go to the manikin page and record location, lesion, and source)	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other specify on manikin	[] Cuts [] Abrasions [] Bruises [] Broken bones [] Head, skull, brain [] Internal injury [] Sprains, strains [] Other specify on manikin
TRANSPORTED DIRECTLY FROM ACCIDENT SCENE FOR TREATMENT?	No I Yes Unknown	No I Yes I Unknown	[] No [] Yes [] Unknown
RECEIVE ANY MEDICAL TREATMENT? (check all that apply)	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown	[] Hospital [] Medical clinic [] Paramedics at scene [] Doctor's office [] Treated by self [] Unknown
HOSPITALIZED?	No Yes - # of days Unknown	No I Yes - # of days Unknown	[] No [] Yes - # of days
TREATED AND RELEASED FROM THE EMERGENCY ROOM?	[X] No [] Yes [] Unknown	I X No [] Yes [] Unknown	[] No [] Yes [] Unknown
NAME OF MEDICAL TREATMENT FACILITY?			
RECEIVED ANY FOLLOW- UP TREATMENT?	No () Yes - describe any additional injuries diagnosed:	No f Yes - describe any additional injuries diagnosed:	[] No [] Yes - describe any additional injuries diagnosed:
LOST ANY DAYS FROM WORK OR SCHOOL (COLLEGE) DUE TO THE CRASH?	[] Unknown [] No [] Not working prior to crash [] Yes - # of days [] Unknown	No Not working prior to crash Yes - # of days Unknown	[] Unknown [] No [] Not working prior to crash [] Yes - # of days [] Unknown
IF REQUIRED: WILL YOU SIGN A MEDICAL RELEASE? * If not an in-person interview, make appointment to have release signed	[] No [] Yes* [] Unknown DATE: TIME: PLACE:	[] No [] Yes* [] Unknown DATE: TIME: PLACE:	[No [Yes* [Unknown DATE: TIME: PLACE:

National Accident Sampling System-Crashworthiness Data System: Occupant Data Questions Supplement Page 5

PSU Number 10 Case Number-Stratum 9625 Vehicle Number 02 Occupant Number 04

INJURY DATA FROM INTERVIEWEE(S) Driver Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):__ SOFT TISSUE/INTERNAL INJURIES **SKELETAL INJURIES**





National Accident Sampling System-Crashworthiness Data System: Occupant Data Questions Supplement Page 6

PSU Number / O

Case Number—Stratum 9625 Vehicle Number 08

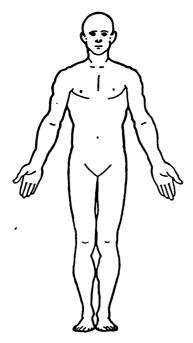
Occupant Number 0 5

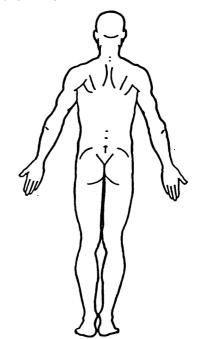


INJURY DATA FROM INTERVIEWEE(S)

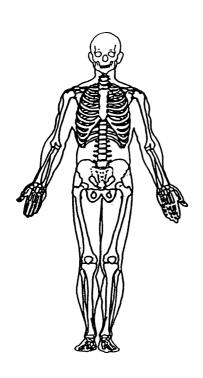
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):

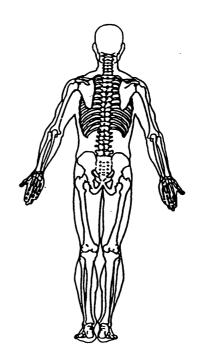
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





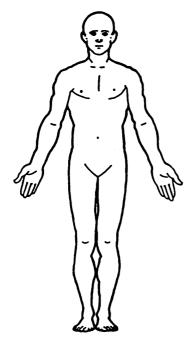
PSU Number 10 Case Number - Stratum 9625

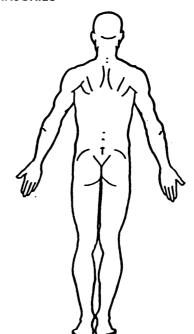
Vehicle Number ____ Occupant Number _

INJURY DATA FROM INTERVIEWEE(S)

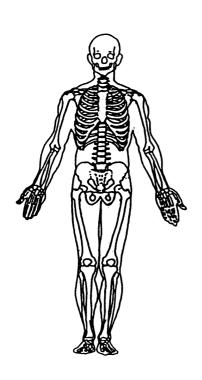
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s):_

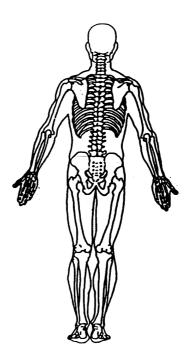
SOFT TISSUE/INTERNAL INJURIES





SKELETAL INJURIES





NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE DRIVER



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

10	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	10. Occupant's Seat Position
2. Case Number - Stratum 9625	Front Seat
3. Vehicle Number	(11) Left side
$\overline{}$	(12) Middle (13) Right side
4. Occupant Number O 1	(14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle —(23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 60 inches X 2.54 = 152 centimeters	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown 130 pounds X .4536 = 50 kilograms	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat -{2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

		EJECTION/E	NTRAPMENT
(1) (2) (3)	etion No ejection Complete ejection Partial ejection Ejection, unknown degree Unknown	<u>O</u>	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
(O) (1) (2) (3) (4) (5) (6) (7) (8) (9) (1) 1 (2) 1 (3) 1 (4) 1 (5) 1	tion Area No ejection Windshield Left front Right front Left rear Right rear Rear Roof Other area (e.g., back of pickup, e (specify): Unknown tion Medium No ejection Door/hatch/tailgate Nonfixed roof structure Fixed glazing Nonfixed glazing (specify): Integral structure Other medium (specify):	<u>O</u> etc.)	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown
(9) Ū	Jnknown		

				raye
		BELT SYST	EM FUNCTION	
1	(Manual (Active) Belt System Availability O) None available 1) Belt removed/destroyed	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt	1
	()	2) Shoulder belt 3) Lap belt 4) Lap and shoulder belt 5) Belt available—type unknown	(1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage	
	// () () ()	ntegral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):	(2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment	
19	-	9) Unknown Annual (Active) Belt System Use	23. Automatic (Passive) Belt System Availability/	0
	(C	DO) None used, not available, or belt removed/destroyed Inoperative (specify):	(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	
	(0	92) Shoulder belt 93) Lap belt 94) Lap and shoulder belt 95) Belt used—type unknown	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	
	(0	Other belt used (specify): Shoulder belt used with child safety seat Lap belt used with child safety seat	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use	0
	(1: (1:	 4) Lap and shoulder belt used with child safety seat 5) Belt used with child safety seat—type unknown 8) Other belt used with child safety seat 	(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown	
		(specify): 9) Unknown if belt used	(9) Unknown 25. Automatic (Passive) Belt System Type	\bigcirc
20.	(0) (1)	oper Use of Manual (Active) Belts None used or not available Belt used properly	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	<u> </u>
	<i>Bei</i> (3) (4) (5)	Belt used properly with child safety seat It Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen	26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	0
	(7)	Lap belt or lap and shoulder belt used improperly with child safety seat (specify): Other improper use of manual belt system	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person	
		(specify): Unknown	(6) Lap portion of automatic belt worn on abdomen	
	Ma	nual (Active) Belt Failure Modes	(7) Automatic lap and shoulder belt or automatic shoulder belt used improperly	
	(O) (1)	No manual belt used or not available No manual belt failure(s)	with child safety seat (specify): (8) Other improper use of automatic belt system	
		Torn webbing (stretched webbing not included) Broken buckle or latchplate	(specify):(9) Unknown	
	(4)	Upper anchorage separated Other anchorage separated (specify):	27. Automatic (Passive) Belt Failure Modes During Accident	
		Broken retractor Combination of above (specify):	 (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate 	
		Other manual belt failure (specify): Unknown	(4) Upper anchorage separated(5) Other anchorage separated (specify):	ŀ
,	JI	CHANGE	(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):	
			(9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36.	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):	 (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged?
	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged -Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	H	EAD RESTRAINT AND SEAT EVALUATION
	4 1	49.	. Head Restraint Type/Damage by Occupant 3
44.	Source of Air Bag Damage (00) Not equipped/not available		at This Occupant Position
	(01) Not damaged		(0) No head restraints
	(02) Object worn by occupant, (specify):	ì	(1) Integral—no damage
	test selection of cooperation topocally.	l	(2) Integral—damaged during accident
	(03) Object carried by occupant, (specify):		(3) Adjustable—no damage (4) Adjustable—damaged during accident
		1	(5) Add-on—no damage
	(04) Adaptive/assistive controls, (specify):	1	(6) Add-on—damaged during accident
	(05)		(8) Other (specify):
	(05) Fire in vehicle		•
	(06) Thermal burns (07) Rescue or emergency efforts		(9) Unknown
	(88) Other damage source (specify):		
	(55) Still damage source (specify).	50.	Seat Type (this Occupant Position)
	(95) Damaged, unknown source	l	(00) Occupant not seated or no seat
	(96) Deployed, unknown if damaged	ł	(01) Bucket (02) Bucket with folding back
	(97) Not deployed	1	(03) Bench
	(98) Unknown if deployed		(04) Bench with separate back cushions
	(99) Unknown		(05) Bench with folding back(s)
		l	(06) Split bench with separate back cushions
45.	Was The Air Bag Tethered?		(07) Split bench with folding back(s)
	(0) Not equipped/not available	İ	(08) Pedestal (i.e., column supported)
	(1) No		(09) Box mounted seat (i.e., van type)
	(2) Yes (specify number of tether straps):		(10) Other seat type (specify):
	2, 3" tethers		(99) Unknown
	(3) Deployed, unknown if tethered (7) Not deployed		(55) Chikhowh
	(8) Unknown if deployed	51.	Seat Orientation (this Occupant Position)
	(9) Unknown	ĺ	(0) Occupant not seated or no seat
40	Did The Air Box House Vest Boxes		(1) Forward facing seat
40.	Did The Air Bag Have Vent Ports? (0) Not equipped/not available		(2) Rear facing seat
	(1) No		(3) Side facing seat (inward)
	(2) Yes (specify number of vent ports):		(4) Side facing seat (outward)
	2		(8) Other (specify):
	(3) Deployed, unknown if vent ports present		(9) Unknown
	(7) Not deployed		0
	(8) Unknown if deployed	52.	Seat Track Adjusted Position Prior To Impact 5
	(9) Unknown		(0) Occupant not seated or no seat
47	Was the Air Bag in this Occupant's Position		(1) Non-adjustable seat track
• • • •	Contacted by Another Occupant?		Adjustable Seet Treet
	(0) Not equipped/not available		Adjustable Seat Track (2) Seat at forward most track position
	(1) No		(3) Seat between forward most and middle track
	(2) Yes (specify):		positions
	(2) Destant		(4) Seat at middle track position
	(3) Deployed, unknown if other occupant contact to air bag		(5) Seat between middle and rear most track
	(7) Not deployed		positions
	(8) Unknown if deployed		(6) Seat at rear most track position
	(9) Unknown		(9) Unknown
			per driver
	Was This Occupant Wearing Eye-wear?		'
	(0) Not air bag equipped/air bag not available		
	(1) No (2) Eyeglasses/sunglasses		
	(3) Contact lenses		
	(4) Deployed, unknown if eyewear worn		
	(7) Not deployed		
	(8) Unknown if deployed		
	(9) Unknown		

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat
- 23

(01) Not adjustable

Upright prior to impact

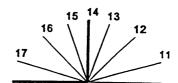
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

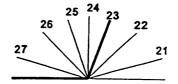
Slightly reclined prior to impact

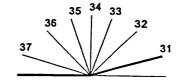
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	C	HILD SA	FETY	Y SEA	AT			
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS Data Collection, Coding and Editing	O O				Seat Harnes	-	00
	(950) Built-in child safety seat (997) Other make/model (specify):					Seat Shield	_	00
	(998) Unknown make/model (999) Unknown if child safety seat used		80.	Note: Varial	Options	Seat Tether s below app 58-0A60. I safety sea	licable to	<u> </u>
56.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used	<u>o</u>		Not D (01) (02) (03) (09)	Designed After ma added, r After ma Child san harness/ Unknow added on	With Harnes arket harnes not used arket harnes fety seat us /shield/tethe rn if harness r used	ess/Shield/Tet ss/shield/tetho ss/shield/tetho sed, but no af	er er used fter market
	Child Safety Seat Orientation (00) No child safety seat	00		(11) (12)	Harness/ Harness/	/shield/tethe /shield/tethe	er not used	· used
	Designed for Rear Facing for This Age/Wei (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age, (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (23) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used			(21) (22) (29)	Harness/ Harness/ Unknowi	/shield/tethe /shield/tethe n if harness		used

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form Page					
INJURY CONSEQUENCES					
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown				
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown				
 (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown 	65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown				
STOP WORK HERE					
VARIABLES 66-74					

TO BE CODED BY THE ZONE CENTER

	INJURY CONSEQUENCES		TRAUMA DATA
66.	Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 days, code number of days.) 10 days = 32, n days = 30 + n up through 30 days = 60) 10 Not fatal 10 Fatal - ruled disease 10 Unknown	4 ay =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
68.	1st Medically Reported Cause of Death 2nd Medically Reported Cause of Death	00	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
	3rd Medically Reported Cause of DeathCode the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	00	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
	disease) (specify):		BELT USE DETERMINATION
70.	Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	03	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

NASS CDS OCCUPANT INJURY FORM: CASE VEHICLE DRIVER

U.S. Department of Transportation

National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

2. Case Number - Stratum

2. Case Number - Stratum

2. Case Number - Stratum

3. Vehicle Number

4. Occupant Number

2. Case Number - Stratum

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

						A.I.S.							Injury		Occupant
		of	ourc Injui Data	y Body	Type o Anatom Structu	ic Anatom	ic	Level of Injury	A.I.S. Severity	Aspe	ct	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
Ala	Tub 1st earn	ion 5.	7	6. <u>7</u>	7. <u>9</u>	8. 0	. 9.	02	10	11.	12.	170	2 13. 2	14/	15. 00
C880 40	tus 2nd 2orm	16	8	17. 7	18. 9	19. 0 4	20.	02	21	22. <u> </u>	23.	25	2 24. /	25/ ;	26. 00
4	ard 20 Th		7	28. 7	29. 9	30. <u>O</u> <u>6</u>	? 31.	00	32	33	34.	250	2 35. <u>/</u>	36. <u>/</u> 3	17. <u>O O</u>
	4th	38		39	40	41	42.		43	44	45.			47 4	8
	5th	49.	_	50	51	52	53.		54	55	56.		57	58 5	9
	6th	60	'	61	62	63	64. _.		65	66	67.		68	69. <u> </u>	o
	7th	71.		72	73	74	75.		76	77	78		79 {	30 8	1
	8th	82	_ {	83	84	85	86		87	88	89		90 9	91 92	2
	9th	93	_ 9	94	95	96	97		98	99	100		101 10	02 103	B
	10th	104 _	_ 10	05	106	107	108	1	09	110	111		112 11	3 114	

HS Form 4338 (1/96)

This report is authorized by P.L. 89-563, Title 1, Section 106, 108, and 112. While you are not required to respond, your cooperation is needed to make the results of this data collection effort comprehensive, accurate, and timely.

	·			OCC	CUPANT	INJURY	DATA				•
	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S 9 Specific Anatomic Structure	C Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
11th		- 			<u></u>	 14					
12th						· —	-			_	
13th	_										
14th					·· ·	· .					
15th		_	_			_					
16th	_					_			_	_	
17th	_						silvapa		_		
18th	_	_							_		
19th	_						_				
20th			_				_			_	
21st	-					_			 -	_	
22nd										_	
23rd		_	_				_		_	-	
24th		_	_			_	_			_	
25th										_	

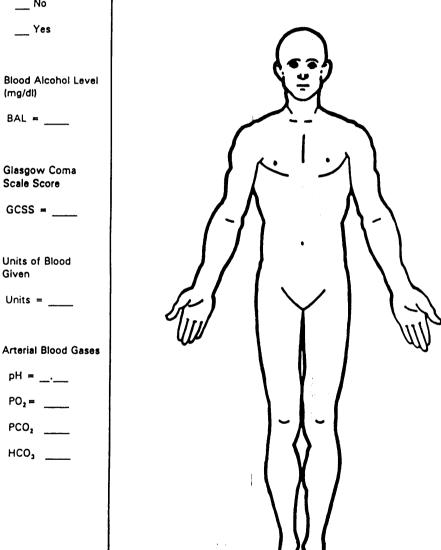
(06) Lumbar

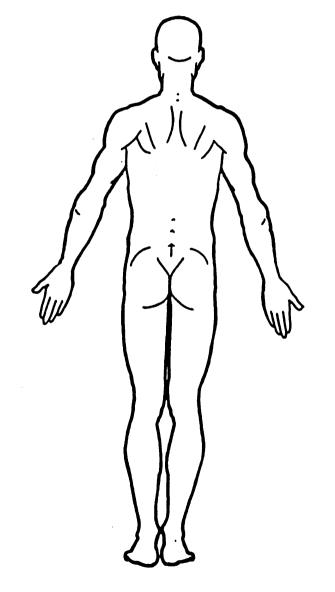
OCCUPANT INJURY CLASSIFICATION Body Region Specific Anatomic Level of Injury **Aspect** Structure (1) Head Specific injuries are (1) Right (2) Face assigned consecutive (2) Left (3) Neck Vessels, Nerves, Organs, two-digit numbers (3) Bilateral (4) Thorax Bones, Joints are assigned beginning with 02. (4) Central (5) Abdomen consecutive two digit (5) Anterior (6) Spine numbers beginning with To the extent possible, (6) Posterior (7) **Upper Extremity** 02. within the organizational (7) Superior (8) Lower Extremity framework of the AIS, 00 (8) Inferior Unspecified (9) The exceptions to this rule is assigned to an injury (9) Unknown apply to: NFS as to severity or Whole region where only one injury is Type of Anatomic given in the dictionary for Whole Area (02) Skin - Abrasion (04) Skin - Contusion (06) Skin - Laceration (08) Skin - Avulsion (10) Amputation (20) Burn Structure that anatomic structure. 99 is assigned to any Whole Area (1) injury NFS as to lesion or (2) Vessels severity. (3) Nerves (4) Organs (includes Abbreviated Injury Scale Muscles/ligaments) (30) Crush (5) Skeletal (includes (40) Degloving Minor Injury joints) (50) Injury - NFS (2)Moderate Injury (6) Head - LOC (90) Trauma, other than Serious Injury (3) (9) Skin mechanical (4)Severe Injury (5) Critical Injury Head - LOC (6) Maximum (02) Length of LOC (untreatable) (7) Injured, unknown (04) Level severity (06) of (08) Consciousness (10) Concussion Spine (02)Cervical (04) Thoracic

SOURCE OF INJURY DATA	INJURY SOURCE	DIRECT/INDIRECT INJURY
OFFICIAL RECORDS (1) Autopsy records with or	(1) Certain	(1) Direct contact injury
without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary)	(2) Probable (3) Possible (9) Unknown	(2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source
(3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic		
UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify):		
(9) Police		

OFFICIAL INJURY DATA — SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





Restrained?

(mg/dl)

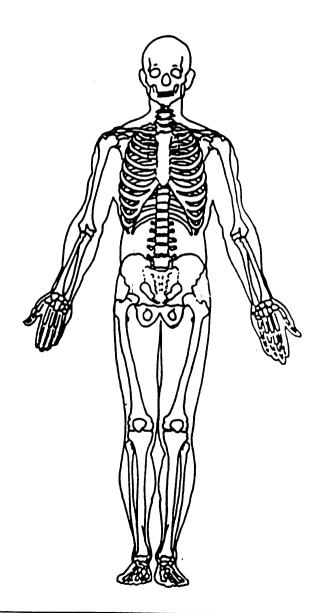
Scale Score

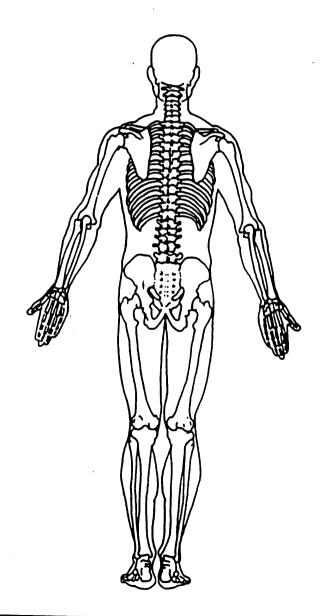
Units of Blood

Arterial Blood Gases

OFFICIAL INJURY DATA — SKELETAL INJURIES

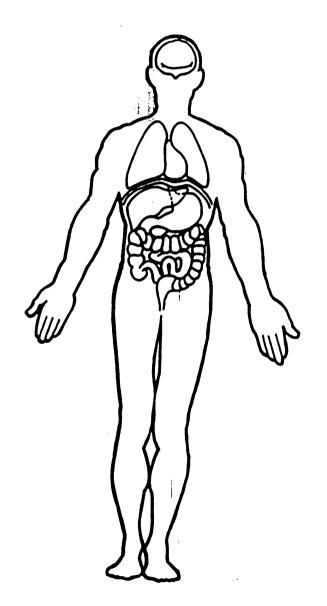
Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

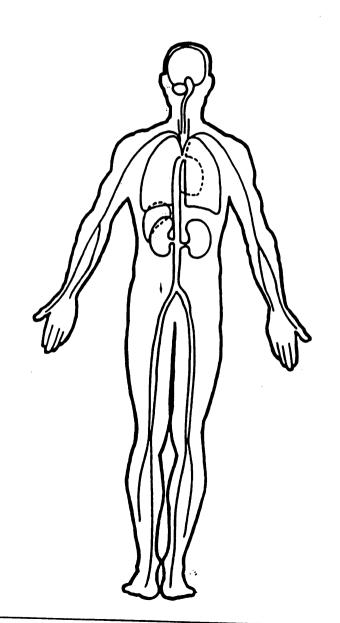




			INJURY	SOU	RCES		
FRON	ιτ	(102)	Right side hardware or	(183	Air bag-passenger side and	(41	1) Wall mounted head rest
(001)	Windshield		armrest		object held		(used behind wheel chair)
	Mirror	(103)	Right A (A1/A2)-pillar	(184) Air bag-passenger side and	(41)	2) Other adaptive device
	Sunvisor	(104)	Right B-pillar		object in mouth		(specify):
-	Steering wheel rim	(105)	Other right pillar (specify):	(185	Air bag compartment		
	Steering wheel hub/spoke				cover-passenger side		
(006)	Steering wheel (combination		Right side window glass	(186) Air bag compartment	EXT	ERIOR of OCCUPANT'S
	of codes 004 and 005)		Right side window frame		cover-passenger side and	VEH	ICLE
(007)	Steering column,	(108)	•		evenes) Hood
	transmission selector lever,	(109)	Right side window glass	(187	Air bag compartment	(452	2) Outside hardware (e.g.,
~~	other attachment Cellular telephone or CB		including one or more of the		cover-passenger side and		outside mirror, antenna)
0001	radio		following: frame, window		jewelry	(453	Other exterior surface or
0091	Add on equipment (e.g.,		sill, A (A1/A2)-pillar, B-pillar,	(188	Air bag compartment		tires (specify):
0031	tape deck, air conditioner)	(110)	or roof side rail.		cover-passenger side and		
2101	Left instrument panel and	(110)	Other right side object	(100)	object held		
,,,,	below		(specify):	(189)	Air bag compartment	(454) Unknown exterior objects
1111	Center instrument panel and				cover-passenger side and		
	below	INTER	NOR.	/100	object in mouth		RIOR OF OTHER MOTOR
112)	Right instrument panel and		Seat, back support	(190)	Other air bag (specify)	VEHI	
	below		Belt restraint webbing/buckle	/1051	Other six has compared		Front bumper
131	Glove compartment door		Belt restraint B-pillar or door	(133)	Other air bag compartment cover (specify)		Hood edge
	Knee bolster	(100)	frame attachment point		Cover (specify)	(503)	Other front of vehicle
	Windshield including one or	(154)	Other restraint system				(specify):
	more of the following: front	(1.04)	component (specify):	ROOF		(504)	Hood
	header, A (A1/A2)-pillar,		component (specify).		Front header		
	instrument panel, mirror, or	(155)	Head restraint system		Rear header		Hood ornament
	steering assembly (driver		Other occupants (specify):		Roof left side rail		Windshield, roof rail, A-pilla Side surface
	side only)	,,,,,,	Carrier Control (CPCC) (7).		Roof right side rail		Side surrace Side mirrors
16)	Windshield including one or	(161)	Interior loose objects		Roof or convertible top		Other side protrusions
	more of the following: front		Child safety seat (specify):	(200)	Noor or conventions top	(203)	(specify):
	header, A (A1/A2)-pillar,			FLOO	3		(specify).
	instrument panel, or mirror	(163)	Other interior object		Floor (including toe pan)	(510)	Rear surface
	(passenger side only)		(specify):		Floor or console mounted		Undercarriage
17)	Windshield reinforced by				transmission lever, including		Tires and wheels
	exterior object (specify)				console		Other exterior of other moto
		AIR BA	k G	(253)	Parking brake handle	,,,,,	vehicle (specify):
19)	Other front object (specify):	(170)	Air bag-driver side		Foot controls including		
		(171)	Air bag-driver side and		parking brake	(514)	Unknown exterior of other
			eyewear		•		motor vehicle
FT S	IDE	(172)	Air bag-driver side and	REAR			
51)	Left side interior surface,		jewelry	(301)	Backlight (rear window)	OTHE	R VEHICLE OR OBJECT IN
	excluding hardware or	(173)	Air bag-driver side and object	(302)	Backlight storage rack,		NVIRONMENT
	armrests		held		door, etc.		Ground
52)	Left side hardware or	(174)	Air bag-driver side and object	(303)	Other rear object (specify):		Other vehicle or object
	armrest		in mouth				(specify):
	Left A (A1/A2)-pillar	(175)	Air bag compartment				
	Left B-piller		cover-driver side	ADAPT	TVE (ASSISTIVE) DRIVING	(599)	Unknown vehicle or object
55)	Other left pillar (specify):	(176)	Air bag compartment	EQUIP	MENT		
			cover-driver side and	(401)	Hand controls for	NONC	ONTACT INJURY
	Left side window glass		eyewear		braking/acceleration		Fire in vehicle
	Left side window frame	(177)	Air bag compartment	(402)	Steering control devices		Flying glass
	Left side window sill		cover-driver side and jewelry		(attached to OEM steering		Other noncontact injury
	Left side window glass	(178)	Air bag compartment		wheel)		source
	ncluding one or more of the	•	cover-driver side and object	(403)	Steering knob attached to		(specify):
	following: frame, window	ı	held		steering wheel		Air bag exhaust gases
	sill, A (A1/A2)-pillar, B-pillar,		Air bag compartment		Replacement steering wheel		Injured, unknown source
	or roof side rail.	•	cover-driver side and object		(i.e., reduced diameter)		
	Other left side object		in mouth	(406)	Joy stick steering controls		
(specify):		Air bag-passenger side		Wheelchair tie-downs		
-		(181)	Air bag-passenger side and		Modification to seat belts,		
~~ <i>-</i>	Sinc.		eyewear		(specify):		
GHT S	SIDE Right side interior surface,		Air bag-passenger side and	(409)	Additional or relocated		
711 -	WALL FIRST TOTAL OF STATE OF S	j	ewelry		switches, (specify):		
		•					
•	excluding hardware or						

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





	CAUSE OF DEATH							
		ICD:0:CM						
		ICD·9·CM						
		OTHER DRUGS (GV16)						
Spec	imen Test Type	Drug(s)	Drug Type					
	lood and urine tests lood test only							
	rine test only							
_	ther test							
o	nspecified							
			}					
		Medical Record Abbreviations						
Symbo	ol	Record Type Description	· · · · · · · · · · · · · · · · · · ·					
A		ation based upon an invasive examination of a body						
MIR. AIR	Admission record/summa	d—where the information reported on the patient is based on a non-invasive exa ry—any medical information on this record should be considered as post-ER sin	ce it summarizes the					
		records are common in short hospitalizations and usually only contain: admiss reatments; ICD-9-CM codes are frequently available.	ion DX(s), final DX(s),					
FS	Admission/discharge face information as discussed	sheet-face sheets are essentially the same as admission record/summaries and calove	contain the same types of					
D6	Discharge summary-shor	rien history of a patient's hospitalization highlighting the patient's major injuries ive of its author which in many cases is a consultant	s; this record is often					
06	Operative record—summa	ry of a performed surgical operation often providing detailed information about						
	results from an outpatient	gery are normally admitted; thus, this record is normally considered post-ER; it t surgery, then treat it as emergency-room_related	nowever, if this record					
PK PN	Patient progress notes—su	ten after the patient has been admitted, or while in surgery or intensive care pplemental record containing additional nurses notes taken after the patient's ac						
HP		a-medical history and the results of the physical exam obtained by the emergence a arrival at the emergency room	cy room physician as-					
CN	Consultation record-cons	ultations are in essence additional history and physicial exams performed by doc						
ER	· · · · · · · · · · · · · · · · · · ·							
EN Emergency room nurse—"nurse/complaint of" section on the emergency room report ED Emergency room doctor—"objective/physical exam" section plus "diagnosis and treatment" sections (i.e., doctor portion of emer-								
NN	gency room report)							
EX CV		en during the patients stay in the emergency room ent of cause of death for legal specific regarding injuries; care must be exercised	to ascertain the creden-					
CIR	tials of the verdict's autho							
ET	has the title of a coroner							
0		cian—report by a person who qualifies as an emergency medical services technic ormation based on an other source (e.g., newspaper, DVM—Doctor of Veterinary						

NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE RIGHT FRONT PASSENGER



National Highway Traffic Safety Administration

OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

	CRASHWORTHINESS DATA SYST
1. Primary Sampling Unit Number / C	OCCUPANT'S SEATING
2. Case Number - Stratum 9625	10. Occupant's Seat Position Front Seat
3. Vehicle Number	(11) Left side
4. Occupant Number 0 2	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
OCCOPANT S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 4	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

HS Form 433A (1/96)

	EJECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<u>o</u>	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, (specify): (9) Unknown	etc.)	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	<u>O</u>	 (2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown

BELT SYST	EM FUNCTION
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
(9) Unknown 19. Manual (Active) Belt System Use (OO) None used, not available, or belt removed/destroyed (O1) Inoperative (specify): (O2) Shoulder belt (O3) Lap belt (O4) Lap and shoulder belt (O5) Belt used—type unknown	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
(08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system
(0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify): (9) Unknown	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available
	(1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL ALE	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available	40. Longitudinal Component of Delta V For Air Bag
	 (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment 	Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V
	(8) Previous accidents, unknown deployment status(9) Unknown	(_997) Not deployed (_998) Unknown if deployed (_999) Unknown
,	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
E (Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):	(9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Year (consists)
(9) Unknown	 (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
S	Air Bag Deployment Accident Event Sequence Number OO) Not equipped/not available Code the accident event sequence	(8) Unknown if deployed (9) Unknown
(9	number that initiated the air bag deployment 96) Deployed, unknown event 97) Not deployed	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged
9)	98) Unknown if deployed 99) Unknown	Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
(0 (1 (2 (3 (6 (7	DC For Air Bag Deployment Impact Not equipped/not available Highest delta V Second highest delta V Other non-coded delta V (specify): Deployed, unknown event Not deployed Unknown if deployed	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed
(9	Unknown	(99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered	(05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown
(7) Not deployed (8) Unknown if deployed (9) Unknown 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No	51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward)
(2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown 47. Was the Air Bag in this Occupant's Position	(8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact 5 (0) Occupant not seated or no seat (1) Non-adjustable seat track
Contacted by Another Occupant's Position (O) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	Per Driver

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

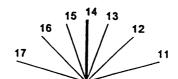
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

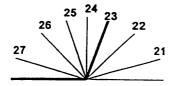
Slightly reclined prior to impact

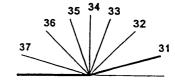
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHIL	LD SA	AFETY SEAT	
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CD		58. Child Safety Seat Harness Usage	20
	Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):			00
	(998) Unknown make/model (999) Unknown if child safety seat used		60. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat	<u> </u>
56.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify):	<u>o</u>	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether use (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether	
	(8) Unknown child safety seat type (9) Unknown if child safety seat used		added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used	
	Child Safety Seat Orientation (00) No child safety seat	00	(19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/T	
	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/We (11) Rear facing (12) Forward facing (13) Other orientation (specify): (19) Unknown orientation		(21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used	
	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):			
	(99) Unknown if child safety seat used			
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IN HIRV CONSEQUENCES						
INJURY CONSEQUENCES 61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) 2 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown					
STOP WORK HERE						

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 2	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant 9 Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (O) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

NASS CDS OCCUPANT INJURY FORM: CASE VEHICLE RIGHT FRONT PASSENGER

U.S. Department of Transportation

National Highway Traffic Safety

OCCUPANT INJURY FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

- 1. Primary Sampling Unit Number
- 3. Vehicle Number

- 2. Case Number Stratum
- 4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

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	Source of Injury Data	Body Region	Type of Anatomic Structure	A.I.S S Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
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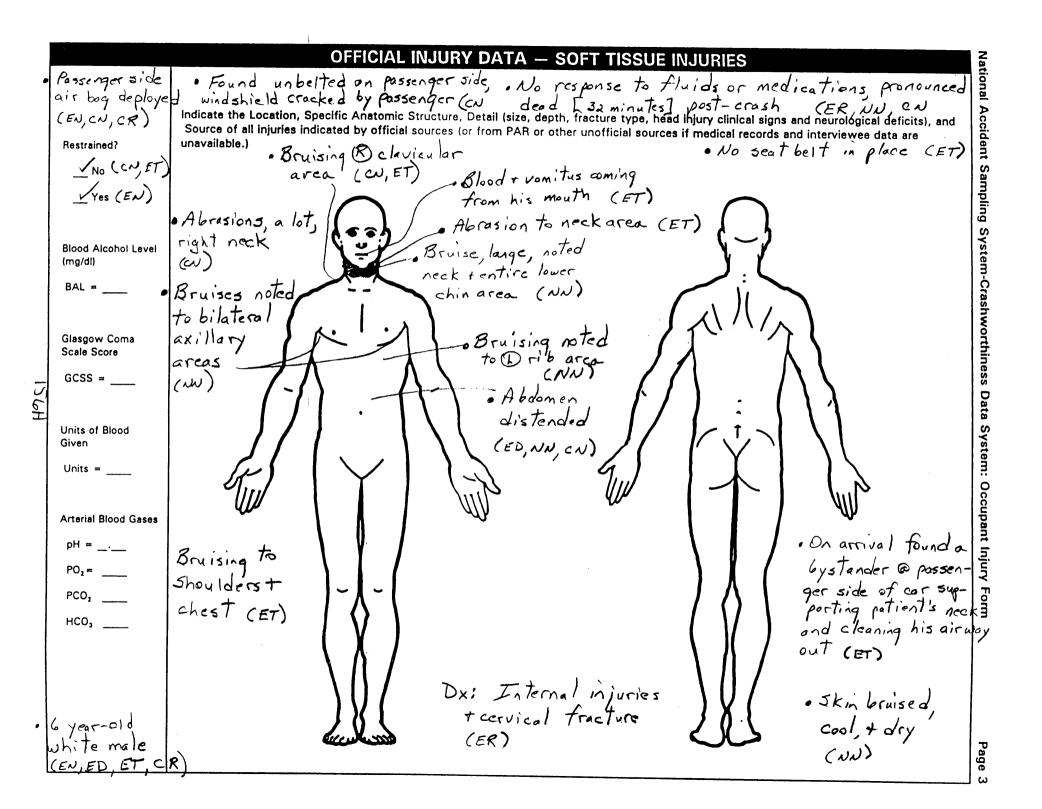
OCCUPANT INJURY CLASSIFICATION **Body Region Specific Anatomic** Level of Injury **Aspect** Structure Head Specific injuries are Right (2) Face assigned consecutive (2) Left (3) Neck Vessels, Nerves, Organs, two-digit numbers Bilateral (3)(4)Thorax Bones, Joints are assigned beginning with 02. (4) Central (5)Abdomen consecutive two digit (5) Anterior (6)Spine numbers beginning with To the extent possible, (6)**Posterior Upper Extremity** (7)02. within the organizational (7) Superior (8) Lower Extremity framework of the AIS, 00 (8) Inferior (9) Unspecified The exceptions to this rule is assigned to an injury (9) Unknown apply to: NFS as to severity or **(O)** Whole region where only one injury is Type of Anatomic Whole Area given in the dictionary for Structure (02) Skin - Abrasion that anatomic structure. (04) Skin - Contusion 99 is assigned to any (1) Whole Area (06) Skin - Laceration injury NFS as to lesion or (2)Vessels (08) Skin - Avulsion severity. (3) Nerves (10)Amputation (4) Organs (includes (20)Burn Abbreviated Injury Scale Muscles/ligaments) (30)Crush (5) . Skeletal (includes (40) Degloving (1)Minor Injury joints) (50)Injury - NFS (2) Moderate Injury Head - LOC (6) (90) Trauma, other than (3) Serious Injury (9) Skin mechanical (4) Severe Injury (5) Critical Injury Head - LOC (6) Maximum (02) Length of LOC (untreatable) (7) Injured, unknown (04) Level severity (06) of (08) Consciousness

(10) Concussion

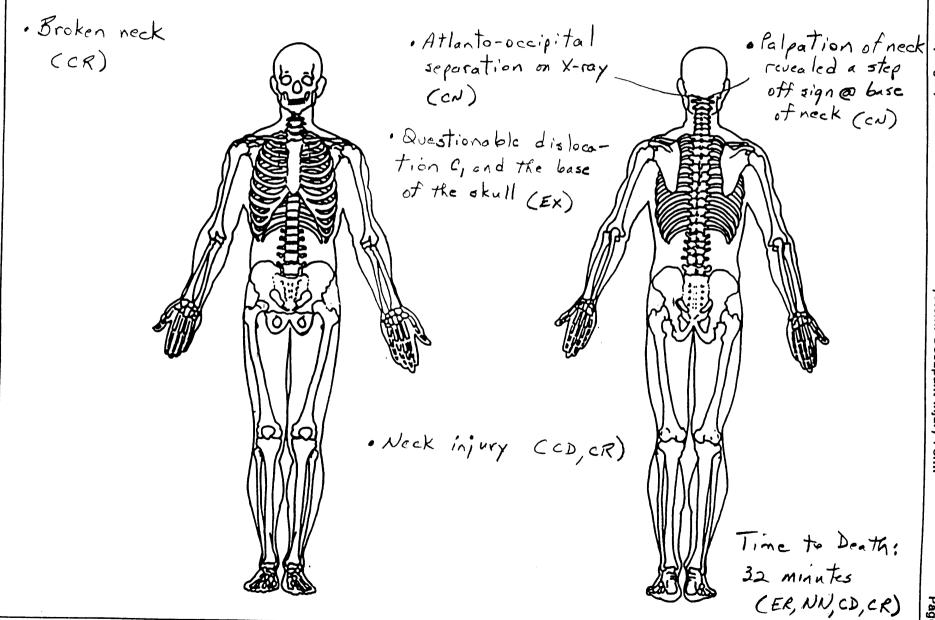
(02) Cervical (04) Thoracic (06) Lumbar

<u>Spine</u>

SOURCE OF INJURY DATA	INJURY SOURCE	DIRECT/INDIRECT INJURY
	CONFIDENCE LEVEL	DITEOT/HADINECT HAJORY
OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records (2) Hospital/medical records other than emergency room (e.g., discharge summary) (3) Emergency room records only (including associated X-rays or other lab reports) (4) Private physician, walk-in or emergency clinic	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source
UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify): (9) Police		



Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



			INJURY	' SOU	RCES		
FRON	.T	(103	Disha sida basdansa sa	***			
	Windshield	(102	Right side hardware or armrest	(183	Air bag-passenger side and abiast hald	(41)	Wall mounted head rest
(002)		(103	Right A (A1/A2)-pillar	(184	object held Air bag-passenger side and	(41:	(used behind wheel chair) 2) Other adaptive device
(003)	Sunvisor		Right B-pillar	,,,,,	object in mouth	(412	(specify):
(004)	Steering wheel rim		Other right pillar (specify):	(185) Air bag compartment		(Specify).
(005)	Steering wheel hub/spoke				cover-passenger side		
(006)	Steering wheel (combination	(106)	Right side window glass	(186) Air bag compartment	EXT	ERIOR of OCCUPANT'S
	of codes 004 and 005)	(107)	•		cover-passenger side and	VEH	ICLE .
(007)	Steering column,		Right side window sill		eyewear) Hood
	transmission selector lever,	(109)	•	(187	Air bag compartment	(452	Outside hardware (e.g.,
(008)	other attachment Cellular telephone or CB		including one or more of the		cover-passenger side and		outside mirror, antenna)
(008)	radio		following: frame, window		jewelry	(453	Other exterior surface or
(009)	Add on equipment (e.g.,		sill, A (A1/A2)-pillar, B-pillar,	(188	Air bag compartment		tires (specify):
(000)	tape deck, air conditioner)	(110)	or roof side rail. Other right side object		cover-passenger side and		
(010)	Left instrument panel and	(110)	(specify):	/100	object held	***	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	below		(Specify).	(103)	Air bag compartment cover-passenger side and	(454)	Unknown exterior objects
(011)	Center instrument panel and				object in mouth	EYTE	PIOP OF OTHER MOTOR
	below	INTER	IOR	(190)	Other air bag (specify)	VEHI	RIOR OF OTHER MOTOR
(012)	Right instrument panel and		Seat, back support	,,,,,,,	and an ask tahaditt		Front bumper
	below		Belt restraint webbing/buckle	(195)	Other air bag compartment		Hood edge
(013)	Glove compartment door	(153)	Belt restraint B-pillar or door		cover (specify)		Other front of vehicle
	Knee bolster		frame attachment point		-	31	(specify):
	Windshield including one or	(154)	Other restraint system				
	more of the following: front		component (specify):	ROOF	:	(504)	Hood
	header, A (A1/A2)-pillar,			(201)	Front header	(505)	Hood ornament
	instrument panel, mirror, or		Head restraint system	(202)	Rear header	(506)	Windshield, roof rail, A-pillar
	steering assembly (driver	(160)	Other occupants (specify):		Roof left side rail		Side surface
	side only)			(204)	Roof right side rail	(508)	Side mirrors
	Windshield including one or		Interior loose objects	(205)	Roof or convertible top	(509)	Other side protrusions
	more of the following: front header, A (A1/A2)-pillar,	(162)	Child safety seat (specify):		_		(specify):
	instrument panel, or mirror	(163)	Other interior object	FLOOI			
	(passenger side only)	(103)	(specify):		Floor (including toe pan)		Rear surface
	Windshield reinforced by		(Specify).	(232)	Floor or console mounted		Undercarriage
	exterior object (specify)				transmission lever, including console		Tires and wheels
		AIR BA	AG .	(253)	Parking brake handle	(513)	Other exterior of other motor
(019)	Other front object (specify):	(170)	Air bag-driver side		Foot controls including		vehicle (specify):
		(171)	Air bag-driver side and		parking brake	(514)	Unknown exterior of other
			eyewear				motor vehicle
EFT SI		(172)	Air bag-driver side and	REAR			
	Left side interior surface,		jewelry	(301)	Backlight (rear window)	OTHER	VEHICLE OR OBJECT IN
•	excluding hardware or		Air bag-driver side and object	(302)	Backlight storage rack,		IVIRONMENT
	ermrests		heid		door, etc.	(551)	Ground
-	Left side hardware or armrest		Air bag-driver side and object	(303)	Other rear object (specify):	(598)	Other vehicle or object
-	ai ii w dat		in mouth				(specify):
053) (aft A (A1/A2)-nillar		Air han communes				
	Left A (A1/A2)-pillar Left B-pillar	(175)	Air bag compartment	404	TD/C /4 CC/CT TO TO TO TO TO TO TO TO TO TO TO TO TO		
054) L	Left B-pillar	(175)	cover-driver side		TVE (ASSISTIVE) DRIVING		Unknown vehicle or object
054) L		(175)	cover-driver side Āir bag compartment	EQUIP	MENT	(599)	
054) L 055) C	Left B-pillar	(175) (176)	cover-driver side Āir bag compartment cover-driver side and	EQUIP! (401)	MENT Hand controls for	(599) NONCO	ONTACT/INJURY
054) L 055) C 056) L	Left B-pillar Other left pillar (specify):	(175)	cover-driver side Äir bag compartment cover-driver side and syewear	EQUIP! (401)	MENT Hand controls for braking/acceleration	(599) NONCO (601)	ONTACT:INJURY Fire in:vehicle
054) L 056) C 056) L 057) L	Left B-pillar Other left pillar (specify): Left side window glass	(175) (176) (177)	cover-driver side Āir bag compartment cover-driver side and	EQUIP! (401)	MENT Hand controls for braking/acceleration Steering control devices	(599) NONCO (601) (602)	ONTACT/INJURY Fire in vehicle Flying glass
054) L 056) C 056) L 057) L 058) L	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass	(175) (176) (177)	cover-driver side Äir bag compartment cover-driver side and syewear Air bag compartment	EQUIP! (401) (402)	MENT Hand controls for braking/acceleration	(599) NONCO (601) (602) (603)	ONTACT∜INJURY Fire in vehicle Flying glass Other noncontact injury
054) L 056) C 056) L 057) L 058) L 059) L	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the	(175) (176) (177) (178)	cover-driver side Äir bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry	EQUIP! (401) (402)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel)	(599) NONCO (601) (602) (603)	ONTACT∜INJURY Fire in vehicle Flying glass Other noncontact injury source
D54) L D56) C D56) L D57) L D58) L in	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the Ollowing: frame, window	(175) (176) (177) (178)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held	(401) (402) (403)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering	(599) NONCO (601) (602) (603)	ONTACT:INJURY Fire in vehicle Flying glass Other noncontact injury source (specify):
D54) L D56) C D56) L D57) L D58) L info	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the Ollowing: frame, window Left, A (A1/A2)-pillar, B-pillar,	(175) (176) (177) (178) (178)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment	(401) (402) (403)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases
054) L 056) C 056) L 057) L 058) L in fo	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the Ollowing: frame, window Left side window sill Left side window glass Including one or more of the Ollowing: frame, window Left side rail.	(175) (176) (177) (178) (178)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object	(401) (402) (403) (405)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter)	(599) NONCO (601) (602) (603)	ONTACT:INJURY Fire in vehicle Flying glass Other noncontact injury source (specify):
054) L 056) C 056) L 057) L 058) L in for si 0060) O	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the Including one or more or more of the Including one or more of the Including one or more or	(175) (176) (177) (178) (178)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object n mouth	(401) (402) (403) (405) (406)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases
054) L 056) C 056) L 057) L 058) L in for si 0060) O	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the Ollowing: frame, window Left side window sill Left side window glass Including one or more of the Ollowing: frame, window Left side rail.	(175) (176) (177) (178) (178) (179)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object n mouth Air bag-passenger side	(401) (402) (403) (405) (406) (407)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases
054) L 055) C 056) L 057) L 058) L in fo si 0000) O	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the Including one or more or more of the Including one or more of the Including one or more or	(175) (176) (177) (178) (178) (179) (180) (181)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object n mouth Air bag-passenger side Air bag-passenger side Air bag-passenger side	(401) (402) (403) (405) (406) (407) (408)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts,	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases
054) L 055) C 056) L 057) L 059) L in fo si 0000 060) O (s	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the following: frame, window Lill, A (A1/A2)-pillar, B-pillar, Incr roof side rail. Other left side object Specify):	(175) (176) (177) (178) (179) (180) (181)	cover-driver side Air bag compartment cover-driver side and eyewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object n mouth Air bag-passenger side Air bag-passenger side and eyewear	(401) (402) (403) (405) (406) (407) (408)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, (specify):	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases
054) L 055) C 056) L 057) L 059) L in fo si 0000 060) O (s	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the following: frame, window Lill, A (A1/A2)-pillar, B-pillar, Incr roof side rail. Other left side object Specify):	(175) (176) (177) (178) (179) (180) (181) (182)	cover-driver side Air bag compartment cover-driver side and syewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object n mouth Air bag-passenger side Air bag-passenger side and byewear Air bag-passenger side and	(401) (402) (403) (405) (406) (407) (408) (409)	HENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, (specify): Additional or relocated	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases
(054) L (055) C (056) L (057) L (058) L (059) L in fo (si (si (si (si (si (si (si (si (si (si	Left B-pillar Other left pillar (specify): Left side window glass Left side window frame Left side window sill Left side window glass Including one or more of the following: frame, window Lill, A (A1/A2)-pillar, B-pillar, Incr roof side rail. Other left side object Specify):	(175) (176) (177) (178) (179) (180) (181) (182)	cover-driver side Air bag compartment cover-driver side and eyewear Air bag compartment cover-driver side and jewelry Air bag compartment cover-driver side and object held Air bag compartment cover-driver side and object n mouth Air bag-passenger side Air bag-passenger side and eyewear	(401) (402) (403) (405) (406) (407) (408) (409)	MENT Hand controls for braking/acceleration Steering control devices (attached to OEM steering wheel) Steering knob attached to steering wheel Replacement steering wheel (i.e., reduced diameter) Joy stick steering controls Wheelchair tie-downs Modification to seat belts, (specify):	(599) NONCO (601) (602) (603)	ONTACT/INJURY Fire in vehicle Flying glass Other noncontact injury source (specify): Air bag exhaust gases

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

· arrived in full cardiopul monary arrest (EN, CN)

· Pupils dilated + fixed

(ED, NN, CN)

· Aprieic + without cardiac electrical activity when EMTs arrived very shortly post
MVA (ED)

High chance child

· High chance child had a broken neck with dislocation a base of skull and C, - at the same.

May have had trauma to a bodomen such as a suptured spleen

(CN)

· Internal injuries (CD, CR)

No Autopsy: (RS,CR)

age

Cause of Death Neck injury and internal injuries (CD, CR)

ICD-9-CM

	OTHER DRUGS (GV16)						
Specimen Test Type		Drug(s)	Drug Type				
Blood and urine tests Blood test only Urine test only Other test Unspecified							
		MEDICAL RECORD ABBREVIATIONS					
Symbol		Record Type Description	,				
A MIL AR FS DS OS FX IN HIP CN ER EN	A Autopsy-medical information based upon an invasive examination of a body ME Medical examiner's record-where the information reported on the patient is based on a non-invasive examination of the body AR Admission record/summary-any medical information on this record should be considered as post-ER since it summarizes the patient's admission; these records are common in short hospitalizations and usually only contain: admission DX(s), final DX(s), and a listing of surgical treatments; ICD-9-CM codes are frequently available. F8 Admission/discharge face sheet-face sheets are essentially the same as admission record/summaries and contain the same types of information as discussed above D6 Discharge summary-shorten history of a patient's hospitalization highlighting the patient's major injuries; this record is often written from the perspective of its author which in many cases is a consultant Operative record—summary of a performed surgical operation often providing detailed information about a specific trauma; pa- tients who survive the surgery are normally admitted; thus, this record is normally considered post-ER; however, if this record results from an outpatient surgery, then treat it as emergency-room related FX Radiographic record—taken after the patient has been admitted, or while in surgery or intensive care FN Patient progress notes—supplemental record containing additional nurses notes taken after the patient's admission HF History and physical exam—medical history and the results of the physical exam obtained by the emergency room physician as- signed to the patient upon arrival at the emergency room Coasultation record—consultations are in essence additional history and physicial exams performed by doctors whose expertise was requested by the emergency room physician; the consultation may occur during the emergency room visit or after admission						
ED ED	Emergency room nurse-":	nurse/complaint of section on the emergency room report	. Andrewski of				
NN EX CV	Emergency room doctor"objective/physical exam" section plus "diagnosis and treatment" sections (i.e., doctor portion of emergency room report) Nurse notes—supplemental record containing additional notes taken by the emergency room nurse(s) Radiographic records—taken during the patients stay in the emergency room Coroner's verdict-statement of cause of death for legal specific regarding injuries; care must be exercised to ascertain the credentials of the verdict's author.						
CR ET O CD=	tials of the verdict's author. Coroner's reportmedical information based upon a noninvasive examination performed by a person who is not a doctor but who has the title of a coroner Emergency medical technician—report by a person who qualifies as an emergency medical services technician (EMS or EMT)						

NASS CDS OCCUPANT ASSESSMENT FORM: CASE VEHICLE RIGHT REAR PASSENGER



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number / O	OCCUPANT'S SEATING
9175	10. Occupant's Seat Position 23
2. Case Number - Stratum / 6 2 3	Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number 0 3	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown 54 inches X 2.54 = 137 centimeters	(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with
(1) Driver (2) Passenger (9) Unknown	another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

		JECTION/E	NTRAPMENT
(1 (2 (3	ection) No ejection) Complete ejection) Partial ejection) Ejection, unknown degree) Unknown	0	15. Medium Status (Immediately Prior To Impact) (O) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
(0 (1 (2 (3 (4 (5 (6 (7 (8 (9	ection Area) No ejection) Windshield) Left front) Right front) Left rear) Right rear) Rear) Roof) Other area (e.g., back of pickup, erection Medium	<u>O</u>	16. Entrapment (O) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place (2) Removed from vehicle due to perceived serious injuries
(1 (2 (3 (4 (5)	No ejection Door/hatch/tailgate Nonfixed roof structure Fixed glazing Nonfixed glazing (specify): Integral structure Other medium (specify): Unknown		(3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown
		_	

18. Manual (Active) Belt System Availability (O) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) BELT SYSTEM FUNCTION 22. Manual Shoulder Belt Upper Anchorage Adjustment (O) No manual shoulder belt (1) No upper anchorage adjustment for man shoulder belt	
(4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (4) Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper	r
(9) Unknown 19. Manual (Active) Belt System Use (OO) None used, not available, or belt removed/destroyed (O1) Inoperative (specify): (O2) Shoulder belt (O3) Lap belt (O3) Lap belt (O3) Lap belt (O4) Lap and shoulder belt (O5) Belt used—type unknown (O8) Other belt used (specify): (O1) Shoulder belt used (specify): (O1) Shoulder belt used with child safety seat (O1) Lap and shoulder belt used with child safety seat (O2) Shoulder belt used with child safety seat (O3) Lap and shoulder belt used with child safety seat (O4) Lap and shoulder belt used with child safety seat (O5) Belt used with child safety seat (O6) Note requipped/not available/destroyed or rendered inoperative (O7) Not equipped/not available/destroyed or rendered inoperative (O8) Unknown 24. Automatic (Passive) Belt System Use (O7) Not equipped/not available/destroyed or rendered inoperative (O8) Unknown 25. Automatic (Passive) Belt System Use (O7) Not equipped/not available/destroyed or rendered inoperative (O8) Unknown 26. Automatic Passive) Belt System Use (O7) Not equipped/not available/destroyed or rendered inoperative (O7) Not equipped/not available/destroyed or rendered inoperative (O8) Unknown 26. Automatic Passive) Belt System Use (O7) Not equipped/not available/destroyed or rendered inoperative (O8) Unknown 27. Automatic Passive) Belt System Use (O7) Not equipped/not available/destroyed or rendered inoperative (O8) Unknown 28. Automatic Passive) Belt System Use (O7) Not equipped/not available/ablestoryed or rendered inoperative (O8) Unknown 29. Unknown if belt used (O8) Unknown if belt used (O8) Unknown if belt used untnown (O8) Unknown 25. Automatic (Passive) Belt System Vse (O8) Not equipped/not available/not used (O8) Not equipped/not available/not used (O8) Unknown 26. Automatic Passive) (O8) Not equipped/not available/not used (O8) Not equipped/not available/not used (O8) Not equipped/not available/not used (O8) Not equipped/not available/not used (O8) Not equipped/not available/not used (O8) Not equipped/not available/not u	
(7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. Vehicle inspection Official injury data Driver/occupant interview Other (specify): Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	 (9) Unknown 42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(7) Not deployed (8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged - Yes - Air Bag Damage (02) Ruptured (03) Cut
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown 46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward)
(2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	(8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
18. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

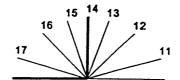
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

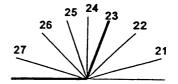
Slightly reclined prior to impact

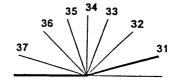
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):_____
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







	CHILD SAFETY SEAT			
55.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing	58. Child Safety Seat Harness Usage		
	(950) Built-in child safety seat (997) Other make/model (specify):	59. Child Safety Seat Shield Usage 60. Child Safety Seat Tether Usage		
56.	(998) Unknown make/model (999) Unknown if child safety seat used Type of Child Safety Seat	Note: Options below applicable to Variables OA58-OA60. (00) No child safety seat		
	 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): 	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used		
	(8) Unknown child safety seat type (9) Unknown if child safety seat used	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used		
	Child Safety Seat Orientation (00) No child safety seat	(19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether		
	Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify):	(21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used		
	(09) Unknown orientation	(99) Unknown if child safety seat used		
	Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):			
4	(19) Unknown orientation			
(Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	-		
	(29) Unknown orientation			
,	(99) Unknown if child safety seat used			

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TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify): (99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used